

GenCore version 5.1.8
Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model
Run on: May 18, 2006, 01:26:43 ; Search time 52 Seconds
(without alignments)
1361.775 Million cell updates/sec

Title: US-09-855-828-1
Perfect score: 4234
Sequence: 1 MFKSLTKVNVKVKPIGENNEN.....PSAEGGEEVLTIEVKEKHQ 809

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database : Issued Patents AA:*

1: /EMC_Celerra_SiSS3/ptodata/2/iaa/5_COMB.pep: *
2: /EMC_Celerra_SiSS3/ptodata/2/iaa/6_COMB.pep: *
3: /EMC_Celerra_SiSS3/ptodata/2/iaa/7_COMB.pep: *
4: /EMC_Celerra_SiSS3/ptodata/2/iaa/H_COMB.pep: *
5: /EMC_Celerra_SiSS3/ptodata/2/iaa/PCTUS_COMB.pep: *
6: /EMC_Celerra_SiSS3/ptodata/2/iaa/RE_COMB.pep: *
7: /EMC_Celerra_SiSS3/ptodata/2/iaa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3166.5	74.8	610	2	US-09-949-016-6945
2	2202	52.0	416	2	US-09-949-016-11669
3	1949	46.0	909	2	US-09-949-029-1315
4	857	20.2	658	2	US-09-949-016-10215
5	850	20.1	694	2	US-09-538-09-1351
6	818.5	19.3	690	2	US-09-275-2520-19
7	817	19.3	685	2	US-09-578-092-1037
8	817	19.3	694	2	US-09-949-016-11549
9	655	15.5	575	2	US-09-927-267-1
10	640	15.1	575	2	US-09-927-267-16
11	484	11.4	261	2	US-09-275-252A-18
12	416.5	9.8	256	2	US-09-270-767-46624
13	413	9.8	1203	2	US-09-949-016-6615
14	413	9.8	1203	2	US-10-067-457-3
15	412.5	9.7	910	2	US-09-997-682A-2
16	412.5	9.7	910	2	US-09-086-431-31
17	412.5	9.7	1109	2	US-09-949-016-10771
18	405.5	9.6	889	2	US-09-949-016-6036
19	405.5	9.6	889	2	US-10-067-457-1
20	399.5	9.4	855	2	US-09-949-016-7263
21	399	9.4	863	2	US-10-067-457-5
22	382.5	9.0	749	2	US-08-997-685A-10
23	392.5	9.0	749	2	US-09-086-436-39
24	382	9.0	528	2	US-08-997-682A-4
25	377.5	8.9	504	2	US-09-949-036-33
26	370	8.7	597	2	US-08-997-685A-12

ALIGNMENTS

RESULT 1
US-09-949-016-6945 Application US/09949016
; Sequence 6945, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIORITY DATE: 2000-04-14
; PRIORITY APPLICATION NUMBER: 60/241, 755
; PRIORITY FILING DATE: 2000-10-20
; PRIORITY APPLICATION NUMBER: 60/237, 768
; PRIORITY FILING DATE: 2000-10-03
; PRIORITY APPLICATION NUMBER: 60/231, 498
; PRIORITY FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 20702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 6945
; LENGTH: 610
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-6945
Query Match 74.8%; Score 3166.5; DB 2; Length 610;
Best Local Similarity 99.0%; Pred. No. 4.3e-272; Mismatches 0; Indels 5; Gaps 1;
Matches 609; Conservative 0; Mismatches 1; Indels 5; Gaps 1;
Ov 195 MLTEYIKRKLUPNSIDSYTDRYLWLLVTLAYNNCNWFPLRIVFPYOTADNHYWL 254
Dp 1 MPLETYIKRKLUPNSIDSYTDRYLWLLVTLAYNNCNWFPLRIVFPYOTADNHYWL 60
Qv 255 IADICIDILYDMLFQPRQLQFVRGGDDIIUDSNBRKYHTSTKQLDVAVSIIPDICY 314
Dp 61 IADICIDILYDMLFQPRQLQFVRGGDDIIUDSNBRKYHTSTKQLDVAVSIIPDICY 120
Dp 315 LPGFNNPFRANRMKTSFFFNHHLIMDKAYLVRVIRTGYLFLPHLNACVYWA 374
Dp 121 LPGFNPFRANRMKTSFFFNHHLIMDKAYLVRVIRTGYLFLPHLNACVYWA 180
Qv 375 SNYEGIGITTRWYDGEBSNBYLRCYWAWRTLITIGGLEPQPQLFETVQFLNFFSGVVF 434
Dp 181 SNYEGIGITTRWYDGEBSNBYLRCYWAWRTLITIGGLEPQPQLFETVQFLNFFSGVVF 240
Qv 435 SSIQGMRDVIGATANQNYFACMDTTIAYMNNSPKLYQKRVRWVYEWYWDORMLD 494
Dp 241 SSILQGMRDVIGATANQNYFACMDTTIAYMNNSPKLYQKRVRWVYEWYWDORMLD 300

QY 495 ESDIILKTLPTVQLAIDNFNSIISKVDLFKGCDTOMIVDMLSLKSVLPLGDPVCK 554
 Db 301 ESDIILKTLPTVQLAIDNFNSIISKVDLFKGCDTOMIVDMLSLKSVLPLGDPVCK 360
 QY 555 GEIGKEMWIKRGEVOLGGEDGTKLVLTKGSVGRBISLLAGGNRRTANVAHGF 614
 Db 361 GEIGKEMWIKRGEVOLGGEDGTKLVLTKGSVGRBISLLAGGNRRTANVAHGF 415
 QY 615 NLTLTDKKTQELVITYPDSERILMKARVILKOKAKTAETPPRKDLALLPPKEBTPK 674
 Db 416 NLTLTDKKTQELVITYPDSERILMKARVILKOKAKTAETPPRKDLALLPPKEBTPK 475
 QY 675 LFKTLUGGTGSKASLASLKLKRQAQKKESEGBEEGKENEDKOKENEDKG 734
 Db 476 LFKTLUGGTGSKASLASLKLKRQAQKKESEGBEEGKENEDKOKENEDKG 535
 QY 735 KENEDKDKGRRPEEKDLDRPECTASIAVVERPHSYRTVLRGTSRQSLSIMAPSAG 794
 Db 536 KENEDKDKGRRPEEKDLDRPECTASIAVVERPHSYRTVLRGTSRQSLSIMAPSAG 595
 QY 795 GEEVLTIEVKERAKQ 809
 Db 596 GEEVLTIEVKERAKQ 610

RESULT 2
 US-09-949-016-11669 Application US/09949016
 ; Sequence 11669, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 11669
 ; LENGTH: 416
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-09-949-016-11669

Query Match 52.0%; Score 2202; DB 2; Length 416;
 Best Local Similarity 99.8%; Pred. No. 1e-186; Matches 412; Conservatve 0; Mismatches 1; Indels 0; Gaps 0;

QY 114 PONKKPAPAVNVEYADQAHNLVVKRMORTALYKKLVVEGLSSPASPTAKPATVAPPV 173
 Db 1 PONKKPAPAVNVEYADQAHNLVVKRMORTALYKKLVVEGLSSPASPTAKPATVAPPV 60
 QY 174 KESDDKPTERYHRLWPKVKQMPITLYKLKPLNSIDSYTRLYLWMLLWLTAYNWC 233
 Db 61 KESDDKPTERYHRLWPKVKQMPITLYKLKPLNSIDSYTRLYLWMLLWLTAYNWC 120
 QY 234 WFPPLRUVFVQYQTDNTHYWLADIICDIYLYDMFPIQPRQFVQYGGDIWDSMLRKH 293
 Db 121 WFPPLRUVFVQYQTDNTHYWLADIICDIYLYDMFPIQPRQFVQYGGDIWDSMLRKH 180
 QY 294 YRTSTKFOLDYASIIIPDCIYFFGPNPMFRANMLKTSFEPNHLESIMDKAVYR 353
 Db 181 YRTSPKFOLDYASIIIPDCIYFFGPNPMFRANMLKTSFEPNHLESIMDKAVYR 240
 QY 354 IRTTGULFILHINACTYWMASNYEGITTRWYDGRGENEIRCYTWAVRLITIGLPE 413
 Db 241 IRTTGULFILHINACTYWMASNYEGITTRWYDGRGENEIRCYTWAVRLITIGLPE 300

RESULT 3
 US-02-538-092-1315 Application US/09538092
 ; Sequence 1315, Application US/09538092
 ; Patent No. 6753314
 ; GENERAL INFORMATION:
 ; APPLICANT: Giot, Loic
 ; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
 ; FILE REFERENCE: 15965-542
 ; CURRENT APPLICATION NUMBER: US/09/538, 092
 ; CURRENT FILING DATE: 2000-03-29
 ; PRIOR APPLICATION NUMBER: 60/127, 352
 ; PRIOR FILING DATE: 1999-04-01
 ; PRIOR APPLICATION NUMBER: 60/178, 965
 ; PRIOR FILING DATE: 2000-02-01
 ; NUMBER OF SEQ ID NOS: 1387
 ; SOFTWARE: CurapatSeqFormatter Version 0.9
 ; SEO ID NO 1315
 ; LENGTH: 909
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (0) .. (0)
 ; OTHER INFORMATION: Polypeptide Accession Number Q14028
 ; US-02-538-092-1315

Query Match 46.0%; Score 1949; DB 2; Length 909;
 Best Local Similarity 46.2%; Pred. No. 9.8e-164; Matches 403; Conservative 122; Mismatches 238; Indels 110; Gaps 18;
 Db 67 VGEAKKAEEAKAEAEEAEKEPODWAETKEEPAAEAASSVATKOPHEWQ 126
 QY 69 IQDK-----LSKNNSGULTTNDPQNAEPTGTVPPQKEMPQKEPN----- 112
 Db 127 VEDTADSCPILMAEENRPPS--TVLPPPSRKSDTLVPSSASGTHRKKKUPSDDEBALK 184
 Qy 113 --SPOQNP-----PAAP-----VINYADQAHNLVVKRMORTALY 146
 Db 185 ALSPAESPVVAVASDPTTPKTDGODRAASTASNAIND---RLOELVLFKERTEKV 240
 Qy 147 KKRLVEGLDSL---SPEASISQTAKTAVAPPVKESSDKPT--EHYVRLWVKVKMPLTEY 200
 Db 241 KEKLIDPDVTSEESPKPSFAKKAPBPAQTKPAEYVPEEEHCDMLCCKFKHRPMKY 300
 Qy 201 LKRIKLPNSIDSYTRLYLWMLLWLTAYNWCNTPLRVFVQYQTDNTHYWLADIIC 260
 Db 301 ---OPQSIDPLTNIMVWLFVVMWNWCMLPVRAFPYKPTDPNTHWLMYDL 356
 Qy 261 DIIVYDMLFPIQPLQFVQYGGDIWDSMLRKHPTSTFQDVAISIPDICIVLFFGFN 320
 Db 357 DLIVFLDITVFQTRQFVQYGGDIWDSMLRKHPTSTFQDVAISIPDICIVLFFGFN 416
 Qy 321 PMFRANMLKTSFEPNHLESIMDKAVYRVRITGULFILHINACTYWMASNYEGI 380
 Db 417 PLRIPRCKMAMAFFNSKLESILSKAYVYRVRTVYLISLHNSCHYMASYQGL 476
 Qy 381 GTTRWYDGRGENEIRCYTWAVRLITIGLPEQTFVQYGGDIWDSMLRKHPTSTFQDVAISIPDICIVLFFGFN 440
 Db 477 GSTHWYDGVGNSYIRCYTWAVRLITIGLPEQTFVQYGGDIWDSMLRKHPTSTFQDVAISIPDICIVLFFGFN 536

QY 441 MRDVIGAATANQWFRACMDTIAANNYSIPKUQKRRTWETWDSQRMILDESDLIK 500
 QY 537 MRDVIGAATAGOTYRSCMDSTVKWNFKPKPSVONRVTWETWHSQGMLDSESLIK 595
 Db 501 TLPTTVQLAIDNFISIISKVDLKFKGCTQIMIVMLRLKSVYLPGDFVCKKGEGKE 560
 QY 597 QLPDKMRDLAIDNTNINISKVALFOGCDROMIDMUKLSVUTLPNDYVCKKGEGKE 656
 QY 561 MYLTKHGEVOLSGPDKTQVLTQKASGVFGELSLAAGGNRRTANVVAHGFANLTQD 620
 Db 657 MYLQAGOVQVLGGPDGKSVLVTQKASGVFGELSLAAGGNRRTANVVAHGFNLFLD 716
 QY 621 KKLTLQELVHYDSDERILMKARVLLKOKAKTAETPPRKDLALFPKEETPKLFKILL 680
 QY 681 GGTGCKAS-----LARLKKRQAAQKKEENSGGEEBCKENEDKQKEDKQ 728
 Db 717 KKDLINEILTHYPESQSKLNUKKARMLNSNK---PKEKSVLILPPRAGTPKLFNAAL 771
 QY 772 AMTGKMGKGAKGGKLAHLKARLKELEAALAAKKEEL--VEOKSSODVKGEBSAAP 828
 Db 729 ENEDKGKE-NEDKDKGKREPEEKPLDPRECTASPIAV-----EEPHSVRTVLP 776
 QY 829 DQHTRPKEAATDPRPAKPTPEPP-GSPSPSPPPASLGSCRGEBGPAEPEEHSTV----- 882
 QY 777 RGTSRSQSLTISMARSSAEGGEEBVLTIEVKERAKQ 809
 Db 883 -----ICMSPCPEPCQILSVKMPBREE 906

RESULT 4
 US-09-949-016-10215
 ; Sequence 10215, Application US/09949016
 ; Patent No. 612339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIORITY APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIORITY APPLICATION NUMBER: 60/237,768
 ; PRIORITY FILING DATE: 2000-10-03
 ; PRIORITY APPLICATION NUMBER: 60/231,498
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 10215
 ; LENGTH: 698
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-09-949-016-10215

Query Match 20.2%; Score 857; DB 2; Length 698;
 Best Local Similarity 29.9%; Pred. No. 5.8e-67; Matches 226; Conservative 153; Mismatches 272; Indels 106; Gaps 22;

QY 19 ENEGSSRRBEGGSFSNSQSQTTAQOBENKEEKSLLKTKSTPVSEBPHNIQDKLSSKCN 78
 Db 1 QTENQAKINTOYSRS-----RTHLKVK---TSDRDLRAENGSLRS 41
 QY 79 SGDPUTNPDQNAABPTGTVPPEQKMDPGKEGPNSPQNKEPAAPVINEYADAQHLNLR 138
 Db 42 SSEEKS-----SVLQP-GIAMETRGLADSGQGSTGQ-----GIARLSRLFL 83
 QY 139 MROUTALYKKLVQGDLSPP-----EASPOATAKPTAVPVKESDDKPTERYLW 189
 Db 84 LRRWAARHVRHQDQGPDSFPDRFRCGAELKEVSSQNSQEQADRG---RSWA 138
 QY 190 FKVKKMPL-----TEYLKIKLUPSI-DSYTRDYLWILMLNTAYNNNCWFIL 238
 Db 139 -----PLAKCNTNTSNTNEEKKKKIWWPSSNLYRWTIAALPVEYVWYLLIC 192

RESULT 5
 US-09-538-092-1351
 ; Sequence 1351, Application US/09538092
 ; Patent No. 675334
 ; GENERAL INFORMATION:
 ; APPLICANT: Giot, Loic
 ; APPLICANT: Mansfield, Traci A.
 ; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
 ; FILE REFERENCE: 15966-542
 ; CURRENT APPLICATION NUMBER: US/09/538,092
 ; CURRENT FILING DATE: 2000-03-29
 ; PRIORITY APPLICATION NUMBER: 60/127,352
 ; PRIOR FILING DATE: 1999-04-01
 ; PRIORITY APPLICATION NUMBER: 60/178,965
 ; PRIOR FILING DATE: 2000-02-01
 ; NUMBER OF SEQ ID NOS: 1387
 ; SOFTWARE: CuraPatSeqFormatter Version 0.9
 ; SEQ ID NO: 1351
 ; LENGTH: 694
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (0)..(0)
 ; OTHER INFORMATION: Polypeptide Accession Number Q16281
 ; US-09-538-092-1351

Query Match 20.1%; Score 850; DB 2; Length 694;
 Best Local Similarity 30.0%; Pred. No. 2.4e-66; Matches 225; Conservative 149; Mismatches 269; Indels 106; Gaps 22;

QY 27 NEEDSHPSNQSQQTTAQOBENKEEKSLLKTKSTPVSEBPHNIQDKLSSKCN 86
 Db 5 NTOYSHPS-----RTHLKVK---TSDRDLRAENGSLRSRAHSSETS- 43

PRIOR APPLICATION NUMBER: 60/178, 965
 PRIOR FILING DATE: 2000-02-01
 NUMBER OF SEQ ID NOS: 1387
 SOFTWARE: CuraPatSeqFormatter Version 0.9
 SEQ ID NO: 1037
 LENGTH: 686
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (0)..(0)
 OTHER INFORMATION: Polypeptide Accession Number P29973
 US-09-538-092-1037

Query Match 19.3%; Score 817; DB 2; Length 686;
 Best Local Similarity 29.9%; Pred. No. 2e-63; Mismatches 266; Indels 136; Gaps 24;
 Matches 226; Conservative 129; Mismatches 266; Indels 136; Gaps 24;

Qy 5 LTKUNKKPKIGENNEQQSSRNEEGSHS---NQSQTIAEENKEE-----KSL 53
 Db 13 VTMPPNVTP----DIEKEIRMENGACSSSFDDASSTSERSENPHARGFSYKSL 67
 Qy 54 KTKSTPVTSBEPHTNIQDKLSSKKNSGDLTTNDPQNAEAPGTVPVQEQMDPGKEGPSNS 113
 Db 68 R-KGGPSOREQVLPGATAFLNFVNNS---NKD---QEPERKKKKKEKKSKDDKNE 117
 Qy 114 PONKPPAQPVINEYADQQLHNLVKMRCTALYKKLVEGDLSSPASPOATAKPTAVPPV 173
 Db 118 NKNDPE-----KKKKKKDKKEKKK-----E 137

Qy 174 KSDDKTPEHYRLWFKVKMPLTEVKRKLKPNSDSYTRYLWLLVTL-AYNW 231
 Db 138 ERSKDKKEEE-----KKEVVV-----IDP-SCTNTYYWMFCITLPVMNW 176
 Qy 232 NCWFPIPLRVFYTQADNIHWLADIICDITYLDMFLIOPRLQFVRGGDTIVDSNELR 67
 Db 177 T-MVIARACDFEDELQSYLELYWILDYDIVYLDM-FVRRTGYLEQGLVKEELKI 233
 Qy 292 KHYRTSTKFOLQVASYTIPFDICYLEFGFN-PMFRAARMLKYSFFERNHHLIESIMKAYI 350
 Db 234 NKVKSNLQFKLDSLPLTDLYFKLGWNWPIRNLRLRFSRMFEPFORTBTRTNPNI 291
 Qy 351 YRVIRTYGYLFILHINACVYWAWSNEGIGTRWY---DGE---GNEYLCYWA 402
 Db 294 FRISNLWVYIVIITHHNACVFYISKAIGFGHNDWVPPDINDPFERGLARKVYSLWST 353
 Qy 403 RTLTIGGLPERQTLFRIVFQQLNFFSGVFWFSSLIGQMDRVIGAATANQYFRACMDT 462
 Db 354 LTLTIGGETPPVRSYFVVFUDFLIGVLFATIVENGNIGMSINNMARAEFOARI 413
 Qy 463 IAYMNNTSIPLVOKVORYRTWYTWDSORMLBDSLIKTLPTVQLAIDWNFSIISKV 522
 Db 414 KOYMHFRNVSKOMBKRVKFWFLWTKTKTVEKEVLYKLPDKURABIAINHLDLTKKV 473
 Qy 523 DFLKGCTQMTYDMLRLKSVYLPDFVCKGEIGKEMYTIKHGEVQVILGPGDGKVLV 582
 Db 474 RFADCEAGLVLVBLVKLQPOVSPGDYICKKGDIGREMYTIKEGLAVV-ADDPYQFV 532
 Qy 583 TIKAGSYFGEISLILAAGG--GNRRTANVAHGFLANLTDKKTLOBLVHPDSRILM 639
 Db 533 VLSDGSYFGEISLINTKGSKAGNRRTANKISGYSDFCLSKDLMALTEPDAKTML 592
 Qy 640 KARVLLKQKA---KTAATPRKDALLFPKPEETPKLFFKMLGGTGKASLARLU--- 692
 Db 593 EKQKQILMDGLDINTANAGSDPKOLEEKVTRMEGSVDLLOT-----RPARILAEY 644
 Qy 693 -----KURREQAQKK-----ENSEG-GEEE 713
 Db 645 ESMQOKUKQRLTKVEFLKPLIDTEFSSIEGPAGAEG 681

Sequence 11549, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 FILE REFERENCE: C101307
 CURRENT APPLICATION NUMBER: US/09/949, 016
 PRIOR APPLICATION NUMBER: 60/241, 755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/1237, 768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231, 498
 NUMBER OF SEQ ID NOS: 20712
 SEQ ID NO: 11549
 LENGTH: 694
 TYPE: PRT
 ORGANISM: Human
 US-09-949-016-11549

Query Match 19.3%; Score 817; DB 2; Length 694;
 Best Local Similarity 29.9%; Pred. No. 2e-63; Mismatches 266; Indels 136; Gaps 24;
 Matches 226; Conservative 129; Mismatches 266; Indels 136; Gaps 24;

Qy 5 LTKUNKKPKIGENNEQQSSRNEEGSHS---NQSQTIAEENKEE-----KSL 53
 Db 76 R-KGGPSOREQVLPGATAFLNFVNNS---NKD---QEPERKKKKKEKKSKDDKNE 125
 Qy 114 PONKPPAQPVINEYADQQLHNLVKMRCTALYKKLVEGDLSSPASPOATAKPTAVPPV 173
 Db 126 NKNDPE-----KKKKKKDKKEKKK-----E 145
 Qy 174 KSDDKTPEHYRLWFKVKMPLTEVKRKLKPNSDSYTRYLWLLVTL-AYNW 231
 Db 185 T-MVIARACDFEDELQSYLELYWILDYDIVYLDM-FVRRTGYLEQGLVKEELKI 241
 Qy 292 NCWFPIPLRVFYTQADNIHWLADIICDITYLDMFLIOPRLQFVRGGDTIVDSNELR 291
 Db 146 ERSKDKKEEE-----KKEVVV-----IDP-SCTNTYYWMFCITLPVMNW 184
 Qy 232 NCWFPIPLRVFYTQADNIHWLADIICDITYLDMFLIOPRLQFVRGGDTIVDSNELR 291
 Db 188 T-MVIARACDFEDELQSYLELYWILDYDIVYLDM-FVRRTGYLEQGLVKEELKI 241
 Qy 292 KHYRTSTKFOLQVASYTIPFDICYLEFGFN-PMFRAARMLKYSFFERNHHLIESIMKAYI 350
 Db 242 NKVKSNLQFKLDSLPLTDLYFKLGWNWPIRNLRLRFSRMFEPFORTBTRTNPNI 301
 Qy 351 YRVIRTYGYLFILHINACVYWAWSNEGIGTRWY---DGE---GNEYLCYWA 402
 Db 352 FRISNLWVYIVIITHHNACVFYISKAIGFGNDTWYPPDINDPFERGLARKVYSLWST 361
 Qy 403 RTLTIGGLPERQTLFRIVFQQLNFFSGVFWFSSLIGQMDRVIGAATANQYFRACMDT 462
 Db 362 LTLTIGGETPPVRSYFVVFUDFLIGVLFATIVENGNIGMSINNMARAEFOARI 421
 Qy 463 IAYMNNTSIPLVOKVORYRTWYTWDSORMLBDSLIKTLPTVQLAIDWNFSIISKV 522
 Db 422 KOYMHFRNVSKOMBKRVKFWFLWTKTKTVEKEVLYKLPDKURABIAINHLDLTKKV 481
 Qy 523 DFLKGCTQMTYDMLRLKSVYLPDFVCKGEIGKEMYTIKHGEVQVILGPGDGKVLV 582
 Db 482 RFADCEAGLVLVBLVKLQPOVSPGDYICKKGDIGREMYTIKEGLAVV-ADDPYQFV 540
 Qy 583 TIKAGSYFGEISLILAAGG--GNRRTANVAHGFLANLTDKKTLOBLVHPDSRILM 639
 Db 541 VLSDGSYFGEISLINTKGSKAGNRRTANKISGYSDFCLSKDLMALTEPDAKTML 600
 Qy 640 KARVLLKQKA---KTAATPRKDALLFPKPEETPKLFFKMLGGTGKASLARLU--- 692

Qy 601 EKGHQILMKGQGLDPLNNTANAGSDPDKLEEKVTRMGSVDLQQT-----REARILAEY 652

Db 693 ----KLKKBQAQCK-----ENSGC-GEREG 713

Db 653 ESMQOKLKORLTKVEFKFLKFLIDTFRSSIECGPAGAEG 689

RESULT 9 927-267-1

; Sequence 1, Application US/0927267

; Patent No. 693347

; GENERAL INFORMATION:

; APPLICANT: Creech, Christopher D.

; APPLICANT: Jegla, Timothy J.

; APPLICANT: ICagen, Inc.

; TITLE OF INVENTION: CNG2B: A No. 6933147el Human Cyclic Nucleotide-Gated Ion Channel

; FILE REFERENCE: 018512-006510US

; CURRENT APPLICATION NUMBER: US/09/927,267

; CURRENT FILING DATE: 2001-08-10

; PRIORITY APPLICATION NUMBER: US 60/226,253

; PRIORITY FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 1

; LENGTH: 575

; ORGANISM: Homo sapiens

; FEATURE: OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)

Query Match 15.5%; Score 655; DB 2; length 575;

Best Local Similarity 29.2%; Pred. No. 3.7e-49;

Matches 165; Conservative 121; Mismatches 241; Indels 38; Gaps 14;

Qy 202 KRIKUPNSIISYTDRLYLWILWILUTAYNNWCNCWFPIFLRLVFPYQTAQDNHYWLIAPICID 261

Db 19 KARKKLUPLVPLPSGD-YYYWWLNMTMVPPVMWMLLIVLCRACFDLQHGYLVWMLVLDYTS 77

Qy 262 ILYUMLFLQPRLQDVRRGGLIIVDSNELRKHRTSTKFQDVAStIPPDICYLFFGFN 320

Db 78 ILYLQDMV-VRFHTGFLQEGILWVUDVKGRISRYRVRWSFELDASLMPTDVYVRLGPHT 136

Qy 321 PMFRANRMLKYSITSFERNNHLESIMDKAYIVVRTGFLILHNACVYWA-SNEYGI 380

Db 137 PTLRNRFRLRAPRLFEADRTETRATYPAFNRIAKMLYIVFHNSCLYFALSRYLGF 196

Qy 381 GTTRWYTDGEG-----NEYLRCYIWAVELLTIGGLPESOTLFEIVFOILNFFSGV 432

Db 197 GRDAWYTPDPAQPGFERLRLQFLYSFYFSTLTLTVDTPPPAREEBYLFMWGDFLLAVM 256

Qy 433 VFSSLIGQMROVI-GATAANQNYFRACMDTIA-YMNNSYSPKLUQKRVRWYEWDS 489

Db 257 GRATNGMSMSSVYINMNTDAAFY--PDHALVVKYMKLOHNRKLERVIDWYQHQLQIN 313

Qy 490 QRMDDFSDLKLTPTVQALALAIDVMSIISKVUDLFFKGCDTOMYDMLRLKSVLVLPGD 549

Db 314 KKMTNEVAILQHLPERLRAEVAVSVHSLTSRVOIQFONCEASLLEELVLUQPTVSPE 373

Qy 550 FVCKKBIGKMYIKHGEOVIGPGPTKVLTAGSKVREBISLIAAGG--GNRRTA 606

Db 374 YVCRKGDIQGEMVITIREGOLAVW-ADDGITOYAVLGAGLYFGEISINNIKGMSGNRTA 432

Qy 607 NVVAHGFMNLTDKKLQELVLYHPSERILMKAR-VLIK-----QKAKTA-EA 655

Db 433 NIKSLGYSDFRLKSKEDLREVLSEPOAQATMEKGREBILKVNKAELQDNEAETALQEA 492

Db 656 TPPRKDIALLFFPKKEPTPLKFKTLGGTGKASLARLKLKREQAAQCK---ENSEGGE 711

Db 493 TESR-LRGLDQQLDILQTFKARLABLESSALKAYRIERLEWQTRWPMPEDLABADD 550

RESULT 10 927-267-16

; Sequence 16, Application US/0927267

; Patent No. 6933147

; GENERAL INFORMATION:

; APPLICANT: Creech, Christopher D.

; APPLICANT: Jegla, Timothy J.

; APPLICANT: ICagen, Inc.

; TITLE OF INVENTION: CNG2B: A No. 6933147el Human Cyclic Nucleotide-Gated Ion Channel

; FILE REFERENCE: 018512-006510US

; CURRENT APPLICATION NUMBER: US/09/927,267

; CURRENT FILING DATE: 2001-08-10

; PRIORITY APPLICATION NUMBER: US 60/226,253

; PRIORITY FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 16

; LENGTH: 575

; TYPE: PRI

; ORGANISM: Rattus norvegicus

; FEATURE: OTHER INFORMATION: rat cyclic nucleotide gated cation channel OCNC2

Query Match 15.1%; Score 640; DB 2; Length 575;

Best Local Similarity 29.1%; Pred. No. 7.8e-48;

Matches 157; Conservative 114; Mismatches 224; Indels 44; Gaps 13;

Qy 218 YI1WLLVLTLAYNNWCNFIPRLVFPYQTAQDNHYWLIADTICDIYDMLFQPLQF 277

Db 34 YYWWLNMTVPPVMYLIVLCRACFDLQHGYLVWMLVLDYTS 92

Qy 278 VEGGDTIVDSNLKRVHTSTKFOLDVASITIPFDICYLFFGFN -PMFRANRMLKYSFEE 336

Db 93 LBOGILVWQDKGMIASRVRTWSPFLDLSLVPDAAVQVQPHPIPTLRLNRFLRVPLFE 152

Qy 337 FNHHLESIMDKAYIVVRTGFLILHNACVYWA-SNEYGI TRWYQEG----- 391

Db 153 AFDRTERRTAYPAFNRIAKMLYIVFHNSCLYFALSRYLGF 212

Qy 392 -- NEYLRCYIWAVELLTIGGLPESOTLFEIVFOILNFFSGVVFVSSLIGQMRDV-GA 447

Db 213 RLRRQYLFSYFSTLTTGTPPLPREEYLFMVGDFULLAVNGFATIGMSVSYNM 272

Qy 448 ATANQNFRCMDTIA-YMNNSYSPKLUQKRVRWYEWDSQMLIDESPLIKLPTT 505

Db 273 NTADAFTY--PDHALVVKYMKLOHNRKLERVIDWYQHQLPER 329

Qy 506 VOLALATDVFNTSISKVDLFFKGCDTOMYDMLRLKSVLVLPGD 565

Db 330 LRAEVAVSVHSLTSRVOIQFONCEASLLEELVLUQPTVSPE 389

Qy 566 HGEVQVLTGGPDTKLVLTKAGSVGETSLLAAGG--GNRRTANVVAHGFMNLTDKK 622

Db 390 EGOLAVW-ADDGITOYAVLGAGLYFGEISINNIKGMSGNRTA 448

Qy 623 TIOFLWYHPSERILMKAR-VLIK-----QKAKTA-EATPPRKDALLFFPKE 671

Db 449 DIREVLSXPQAOAVMBERKGREILLKVNKAELQDNEAETALQEST--LKGLDQQLD 506

Qy 672 TPKFKTILGGTOKASLARLKLKREQAAQKENSEGEESEKENEK 719

Db 507 LQFKARLAELESSALKAYRIERLEWQTRWPMPEDLABADD 565

RESULT 11 927-252A-18

; Sequence 18, Application US/09275252A

Patent No. 6641997
; GENERAL INFORMATION:
; APPLICANT: MacKinnon, Roderick
; TITLE OF INVENTION: Assays for Screening Compounds Which Interact With
; TITLE OF INVENTION: Channel Proteins, and Uses Thereof
; FILE REFERENCE: 018512-002901US
; CURRENT APPLICATION NUMBER: US/09/275, 252A
; CURRENT FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: US 09/045, 529
; PRIOR FILING DATE: 1998-03-20
; PRIORITY DATE: 1998-04-02
; PRIORITY NUMBER: WO PCT/US99/06307
; PRIORITY FILING DATE: 1999-03-22
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 18
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-275-252A-18

Query Match 11.4%; Score 484; DB 2; Length 261;
Best Local Similarity 37.2%; Pred. No. 1.6e-34; Mismatches 58; Indels 12; Gaps 4;
Matches 97; Conservative 58;

Qy 370 VYVWASNYEGIGTRWVY---DGE---GNEVLRCYWAVRVLITIGGLPBPOTLFBIV 421
Db 1 IYVAISKSIGFGIPTWVNPNTDPEYGVLAREIVCYLWSTLTTIGETPPVKDEYL 60
Qy 422 FQLINFFSGVVFVSSLICQMRDVIGAATANQNFRACMDTAYMNNSIPPKLUVKERVRT 481
Db 61 FVFDPLFLIGVLIFATIVGNVGSMSINMMATRFQAKIDAVKHYMQFRKVSKGMEAKVIR 120
Qy 482 WKEYTWQSORMIDESDLKTPPTVQLALAINFSITSKVULFKGDTQMYDMJRLK 541
Db 121 WFDSLWTKKTDERELKLNLPAKLRAIBAINLHSLTKVIFHDCEAGLVELVILKR 180
Qy 542 SWVILPGDFVCKKGEBIGEMYIHKGEVQVLGGPDGTKVLUVTKAGSVFGETSLLAAGG- 600
Db 181 PQQVSPGDIYICKRGDICKGEMYIKEGKLAVVADDGVQYQALISAGSCFGESIINTIKGS 239
Qy 601 --GNRRTANVVAHGFPANLTL 619
Db 240 KMGNRTANIRSIGYSDLFLC 260

RESULT 12
US-09-270-767-46624

Sequence 46624, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Hamburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270, 767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 46624
; LENGTH: 256
; TYPE: PRT
; ORGANISM: *Drosophila melanogaster*
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
; US-09-270-767-46624

Query Match 9.8%; Score 416.5; DB 2; Length 256;
Best Local Similarity 36.8%; Pred. No. 1.6e-28; Mismatches 78; Conservatve 53; Mismatches 80; Indels 1; Gaps 1;

Qy 253 WLIADIICDIKLYDMLIETIOPRLQFVRGDDITUDSNELRKH'RTSTKEQDVAISIIPDI 312
Db 45 WLACDFCDIYIYLWDVFPKHRMYLEFGWMKPNKNTRKLOFKLDALLPEL 104
Qy 313 CYLPGFGNPMF-RANRMKYTSPEFHNLHESITMDKAVIYRVIRTGVLFLIHINACVY 371
Db 105 LYFKLGTOAVWLRRPFREKIQSPWEVFRFLDRVISSPHFVRAKILTYMLYMIHITALY 164
Qy 372 YWASNYEGIGTRWVYEGEGNEVLRCYWAVRVLITIGGLPBPOTLFVQINFFSGV 431
Db 165 VAYSVDQCLGQNRWVFSKGGHPYVRCEFAKTATASCKNPKPERQGYEVMTVAWLMGV 224
Qy 432 FWSSLLGQMRDVGAATAVANQYFRACMDTI 463
Db 225 FVFLALIGQIDLISTATRKNKHEYRQLEDET 256

RESULT 13
US-09-949-016-6615
; Sequence 6615, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENNER, J. Craig et al.
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FactSEQ for Windows Version 4.0
; SEQ ID NO: 6615
; LENGTH: 1203
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-6615

Query Match 9.8%; Score 413; DB 2; Length 1203;
Best Local Similarity 23.9%; Pred. No. 3.5e-27; Mismatches 152; Conservative 109; Mismatches 273; Indels 101; Gaps 25;

Qy 62 SREPHNTQDKLSKNN--SSGDLTTPNDP---PONAATFTGTWPEQEKMDPGKE----GP 111
Db 115 SGSSHGHJLDSAEERRLIAEGDASPGEERTPGPLAEE-----RPGASAQPASP 165
Qy 1112 NSPONKEPAAPVINEYADAOHLNLUKMRORTAL-YKKKLVEGDLSSFEASPOTKATAV 170
Db 166 PPOQOPPOPASASCEQPSVSD-----TAIKVGGAAAGDQILFEEVRLQGAGFM 214
Qy 171 PPVKESDDKPTEHYRLWPKKOMPLTEYLUKIKLNU-SIDSYD-RUYLMLLIVTL 227
Db 215 QROFGAMLQPGVNFSLRNGMSQKAVEREQ-ERVKSAFGWVHPSDPRFY-WDLTMU 271
Qy 228 ATWNWCWPIPLRUVPLQPTQADIMHYWELADIICDIYDMLFPIOPRLQFVRG----G 281
Db 272 LMVGNLIIIPVGTF--FKDENITPWVFNVVSUDTFLFLIDV-----LNFRGIWEDNT 324
Qy 282 DTVDSNLURKRYTSTKFOLDVASTIFPDICYL-----FFGFNFNM 323
Db 325 EILDPORIKMKYLKW-FMVDFISSIPDVYFLIVETRIDESEVYKTPARLIVRFTKL 383
Qy 324 RANRMLKTYTSPEFNHLESIMDKAY----TYRVRTGVLFLIHINACVYVASNYE 378
Db 384 SLRLRLSLRLTRYTHOMBEIHMVTDLASAVRIVUNLGMMLLCHWDGCLQFLVNLQ 443
Qy 379 GI GTTRW----V DGE GEN E VLR CYW A VRV LIT G-LP ER Q TUE FVOLNFFSGV 431
Db 444 DFDDCWWSINNNNNNSWKGQSYALFKAMSHLCTGYGROA P VGM SDWVLTMLSMIVGA 503

QY 432 FVSSLIGQMRDVIGATAANONYFRACMDTTAYMNNSIPKLVKRVRVRYEWTDSQR 491
 Db :: ||| : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ;
 QY 504 TCYAMFIGHATALIQOSLDSSRRQYQEKYKQVEQMSFHKLPPDTRORIHDYEHRYQG-K 562
 Db 492 MLDESLKLKLTPLTVOLALAIDWNS--LISKVDLFKGCDTQMYDMJURLKSVLYPG 548
 Db :: ||| : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ;
 QY 563 MFDEESILGESEPLREEI--INFNCRKLUVASMLPFLANADPNFTVSMLTKLRFFVFQPG 619
 Db 549 DFVCKKGEGIKEMYTIKHGEVQVL-GGPDGTKVLVLTAKASVFGETSLLAAGGNNRTAN 607
 QY 620 DYIIRBTGKMYFIQHGVSVLTKGNKETK---LADSYFGEICLUTRG--RRTAS 672
 Db 608 VVAHGFANLITLDKKTQLQEILVHYPDSERILMKKA 642
 QY 673 VRADTYCRLYSLISVDNFNEVLEEYP---MMRRA 702

RESULT 14
 US-10-067-457-3
 ; Sequence 3, Application US/10067457
 ; Patent No. 697952
 ; GENERAL INFORMATION:
 ; APPLICANT: Aventis Pharma Deutschland GmbH
 ; TITLE OF INVENTION: Process for identifying substances which modulate the activity of hyperpolarization-activated cation channels
 ; TITLE OF INVENTION: activity of hyperpolarization-activated cation channels
 ; FILE REFERENCE: AVE D-2000/A006
 ; CURRENT APPLICATION NUMBER: US/10/067,457
 ; CURRENT FILING DATE: 2002-04-09
 ; PRIORITY NUMBER: US/09/779,587
 ; PRIORITY FILING DATE: 2001-02-09
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SSO ID NO: 3
 ; LENGTH: 1203
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-067-457-3

Query Match 9.8%; Score 413; DB 2; Length 1203;
 Best Local Similarity 23.9%; Pred. No. 3.5e-27;
 Matches 152; Conservative 109; Mismatches 273; Indels 101; Gaps 25;

QY 62 SEBPHTNIQDKLSKRN--SSGDLTNPD--PQNAEPTGVPEQKEMDPOKE---GP 111
 Db :: ||| : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ;
 QY 115 SGSSRGHLHSAAERRLIASGDDASCPEDRTPGLAEP--REGASAQPAASP 165
 Db 112 NSPQNPKPAAPVINEADAQHLNLRKMRORTAL-YKKKLVEGDLSPEASPTQAKPTAV 170
 QY 166 PPQOQPQPOPASCEOPSVD-----TAIKVEGAAGDQILPEAEVRLGAGFM 214
 Db 171 PPVKESDDKPKPHYYLWFKKKMPLTEYLKRKLPN-SIDSYTD-RUYLWLWLVT 227
 QY 215 QRQFGAMLQPEVKNSLDRMFESSQKAVEREQ-ERVKSGAFWTHIPSDFREY-WDLMILL 271
 Db 228 AYNWCWQFPLRUVFQYQATADNNHYMLADIICDIYLYPMFLQPRLOFVRG---G 281
 QY 272 LMGVNLTIPVGITF--FKDENTTPWIVENUTWSDFELIDIV---LNFRTGIVVEDNT 324
 Db 282 DIVDSNELRGRYRSTKFOLDVASTIPFDICYL-----FFGENPMF 323
 QY 325 EILDQPKRQKYLKSW-FWUDFISSIPDVYFLIVETRIDESEVKTARAIIVRFKIL 383
 Db 324 RANRMKRTSFEEFNHLESIMDKAY----IYRVRTGTYLIFIRHINACVYVWASNYE 378
 Db 384 SLRLRLRLSRLRIRYHOWEEIFFHMTYDLASVWVRYVNLGMUMLCHWDGLQFLUPMLQ 443
 QY 379 GITTRW----WVDEGEGNLYRCYVWAVTLITG-GLPEPQTLFEVQFQNLNFSGV 431
 Db 444 DFPDDCWVSTINNMVNNSWKGKSYVALFKAMSHMCIGYGRQAVGMSDWNLMLSMVGA 503
 QY 432 FVSSLIGQMRDVIGATAANONYFRACMDTTAYMNNSIPKLVKRVRVRYEWTDSQR 491
 Db :: ||| : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ; : ;
 QY 608 VVAHGFANLITLDKKTQLQEILVHYPDSERILMKKA 642
 Db 673 VRADTYCRLYSLISVDNFNEVLEEYP---MMRRA 702

RESULT 15
 US-08-997-685A-2
 ; Sequence 2, Application US/08997685A
 ; Patent No. 6551821
 ; GENERAL INFORMATION:
 ; APPLICANT: The Trustees of Columbia University
 ; APPLICANT: Kandel, Eric
 ; TITLE OF INVENTION: Brain Cyclic Nucleotide Gated Ion Channel and Uses Thereof
 ; FILE REFERENCE: 05754806
 ; CURRENT APPLICATION NUMBER: US/08/997,685A
 ; CURRENT FILING DATE: 1997-12-12
 ; NUMBER OF SEQ ID NOS: 60
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 2
 ; LENGTH: 910
 ; TYPE: PRT
 ; ORGANISM: mouse
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (130)..(148)
 ; OTHER INFORMATION: S1
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (130)..(148)
 ; OTHER INFORMATION: S1
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (164)..(185)
 ; OTHER INFORMATION: S2
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (208)..(229)
 ; OTHER INFORMATION: S3
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (243)..(271)
 ; OTHER INFORMATION: S4
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (291)..(313)
 ; OTHER INFORMATION: S5
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (332)..(358)
 ; OTHER INFORMATION: P
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (367)..(387)
 ; OTHER INFORMATION: S6
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (472)..(602)
 ; OTHER INFORMATION: CNB
 ; PUBLICATION INFORMATION:
 ; DATABASE ACCESSION NUMBER: AACG3518
 ; DATABASE ENTRY DATE: 1997-12-27
 ; RELEVANT RESIDUES: (1)..(910)
 ; US-08-997-685A-2

Query Match 9.7%; Score 412.5; DB 2; Length 910;
 Best Local Similarity 20.2%; Pred. No. 2.5e-27;
 Matches 150; Conservative 144; Mismatches 269; Indels 179; Gaps 25;

QY 210 ISYTD-RLYLIMULLVLTAVNNWCWFPLRLVFPYQATADNHYWLADICDILYDM 268
 Db 124 IHPYSDRFY-WDLIMLIMMVGNLVIIIPVGIFP-FTEQTTPWIFNVASSTVFLLD 179
 QY 269 LFTQPRIQFVRG-----GDIWDSNELRKHRTSTKFDLQDASIIFDICL----- 315
 Db 180 I-----MNFRTOVNEEDSSEIILDPKVIMNMLKSW-FVVDFTTSSIPDVYTLIVEKMD 233
 QY 316 -----FFGFNPMPFRANRMLKUTSFESFNHHSIMOKAY---IVRVIRTYG 359
 Db 234 SEVYKTARALRIVRFTKLISLRLRSLRIVTHOMEIEIMTYDLSAVRRIENLGM 293
 QY 360 LFLILHNACVYI-----WASNVEGIGTTRWVYDCEBGEVYLCYWWAVRTLT 407
 Db 294 MILCHNDGCQFLVPLQDPPDCWMSLINE----MVNDSGKQSYALFKAMSHMLC 347
 QY 408 IG-GLPBPOTLEBIVFOLINFSGVFESSLIGQMRDVIGATA-TANQYFRACMDTAYM 466
 Db 348 IGYGAQAPVSMSDLWITMISMIVGATCYAMFHATALIQSDSSRRQYQEKYKQVEQYM 407
 QY 467 NNSYIPLKUQKVRTWYEYTWSQRMUDESDUJKTLPVQLALAINFS--IISKVD 523
 Db 408 SHIKLPAADMROKHDEHRYDG-KIRDEENTLSELUDPLRBI--VNENGRLVATMP 463
 QY 524 LFKGCDTOMIYMLURKSVLIPGDVFCKKBEIGKENYIINKGEVOLGGPDGTKVLT 583
 Db 464 LANADNFVUTAMLSURFEVQPGDYIREGASVGKMKFICHGVAGVIT---TKSSKE 518
 QY 584 LKA--GSVFGESLLAAGGGNRTANTYVAHGFLNLTDKKLQETLVPHYPER---- 636
 Db 519 MKLTGDSYFGEICLLTKG--RTTASVRADETCRLYSLSVDNFNEVLEYPMMRAFETV 575
 Qy 637 -----ILMKK-----ARVLIQKAK----- 651
 Db 576 AIDRLDRIGKNSILQKFQKDQNTGYFNNOENEILQIVKIDREMYQAIPPINYFOMTA 635
 QY 652 --TAEATPPRKL-----ALLFP-----P 668
 Db 636 LNCTSSTTPTRMRTQSPPVVTATSLSHSNJHSPSSTQTQPSAALSPESYTTAVCSP 695
 QY 669 KEBTPKLFKTLGGTGKASLARLKLKRQEAOQ--KKENSGGEEBGKENDKOKENED 725
 Db 696 P1QSPЛАTTFHYASPTASOLSMQQQQQDQPOSOVQQTQTOQQQQQQQQQQQQQQ 755
 Qy 726 KQKENEKKGKEEDDKGKREPBKPLDRPECTASPIAVEEBHSVRBTVPRTSIOSL- 784
 Db 756 QQQ 815
 QY 785 -----IISMAPAEGGEBVLT 801
 Db 816 HSYVSLIS-RPHPTVGESLASI 836

Search completed: May 18, 2006, 01:30:02
 Job time : 55 sec

This Page Blank (uspto)

GenCore version 5.1.8
Copyright (c) 1993 - 2006 Biocceleration Ltd.

Run on: May 18, 2006, 23:59:38 ; Search time 588 Seconds
(without alignments)
3861.549 Million cell updates/sec

Title:

US-09-855-828-1
Perfect score: 4234

Sequence: 1 MFKSLTKVNVKPIGENEN.....PSAEGGEVLTIEVKERKQ 809

Scoring table:

BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1403666 seqs, 93555401 residues

Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+p2n.model -DBV=x1P
-Q=/abs/ABSSWER_spool/US0985528/runat_17052006_181424_25179/app_query.fasta_1
-DB_ISSUED_PATENTS_NA -QFILE=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -IOORL=0
-LIST=45 -DOCALLIGN=200 -THR SCORE=PCT -THR MAX=100 -THR MIN=0 -ALIGNN=15
-MODEBLOCAL -OUTPMTPTO -NORM=EXT -HEAPSIZ=500 -MINLEN=2000000000
-HOST=absbs02p -USER=US0985528 @CGN 1_1_541 @runat_17052006_181424_25179
-NCPU=6 -ICPU=3 -NO_MMAP -NEG SCORE=0 -WAIT -DSPBLOCK=5 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELEXT=6 -DELEXT=7

Database : Issued Patents-NA:*

1: /EMC_Celerra_SINS3/ptodata/2/ina/1/COMB.seq: *
2: /EMC_Celerra_SINS3/ptodata/2/ina/5/COMB.seq: *
3: /EMC_Celerra_SINS3/ptodata/2/ina/6/COMB.seq: *
4: /EMC_Celerra_SINS3/ptodata/2/ina/7/COMB.seq: *
5: /EMC_Celerra_SINS3/ptodata/2/ina/H/COMB.seq: *
6: /EMC_Celerra_SINS3/ptodata/2/ina/H/COMB.seq: *
7: /EMC_Celerra_SINS3/ptodata/2/ina/PCUTS/COMB.seq: *
8: /EMC_Celerra_SINS3/ptodata/2/ina/PC_1/COMB.seq: *
9: /EMC_Celerra_SINS3/ptodata/2/ina/RE/COMB.seq: *
10: /EMC_Celerra_SINS3/ptodata/2/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1
US-09-949-016-1074
; Sequence 1074, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 20712
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1074
; LENGTH: 2135
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-1074

ALIGNMENTS

Alignment Scores:
Prd. No.: 0
Score: 3594.50
Percent Similarity: 99.1%
Best Local Similarity: 99.1%
Query Match: 84.9%
Length: 2135
Matches: 690
Conservative: 0
Mismatches: 1
Indels: 5
Gaps: 1

1141 GAGACCCACCCCCGGTAAAGATGAGGATCTCTTGTTGTTGAGACTCTTGTTG 1200
Db :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Qy :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIORITY APPLICATION NUMBER: 60/241, 755
; PRIORITY FILING DATE: 2000-10-20
; PRIORITY APPLICATION NUMBER: 60/237, 768
; PRIORITY FILING DATE: 2000-10-03
; PRIORITY APPLICATION NUMBER: 60/231, 498
; PRIORITY FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 20712
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 5678
; LENGTH: 2796
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-5678

Alignment Scores:
Pred. No.: 6.15e-81
Score: 817.00
Percent Similarity: 46.9%
Best Local Similarity: 29.9%
Query Match: 19.3%
DB: 3 Gaps: 24
length: 2796
Matches: 226
Conservative: 129
Mismatches: 266
Indels: 136

US-09-855-828-1 (1-809) x US-09-949-016-5678 (1-2796)

Qy 5 LeuThrLysValAsnLysVallysProleGlyGlutAsnAsnGluAsnGluGlnSerSer 24
Db 365 GTAACTGCCAATGTCATGTCATCA 409
Qy 25 ArgArgAsnGlnGluGlySerHisProser-----AsnGlnSerGlnThr 40
Db 410 CGAAGGTGAAAATGGCATGCAGCTCTGCTCAAGGACATCTATGGAG 469
Qy 41 ThrlAlaGlnGluGlnLysGlyGlu-----LysSer 53
Db 470 TCTGAGAAATCGAGATGAAACCTCTCATCAAGGGTTCCTTAGTTATAAGTCACTC 529
Qy 54 LysThrLysSerThrProValThrSerGluGluProHisThrAsnIleGlnAspLysLeu 73
Db 530 AGA--AAGGGAGGACCATCACAGAGGGGCAAGGACCTT 586
Qy 74 SerLysLysAsnSerSerGlyAspLeuThrThrAsnProAspProGlnAsnAlaAlaGlu 93
Db 587 AATGTGAAACAACAGCAGC-----AATAGGAC-----CAGGA 619
Qy 94 ProThrGlyThrValProGluLysGlnMetAspProGlyLysGluGlyProAsnSer 113
Db 620 CCAGAAGAAAMAAGAAAGAAAGAAAGAAAGAGCAAGTCAGATGATAAACGAA 679
Qy 114 ProGlnLysLysProProAlaAlaProValLeuAsnGluTyRAlaAspAlaGlnLeuHis 133
Db 680 ATAATGACGACCCAGA----- 697
Qy 134 AsnLeuValLysArgMetArgLysGlnArgThrAlaLeuTyRlysLysLeuValGluGly 153
Db 698 -----AGAGAAAGAGAGAAAGAGAAAGAGAAAGAGAAAGAGAAAGAGAA----- 736
Qy 154 AspLeuSerSerProGluAlaSerProGlnThrAlaLysProThrAlaValProProVal 173
Db 737 -----GAG 739
Qy 174 LysGluSerAspAspLysProThrGluHisTyRTyRArgLeuLeuTrpHelysVallys 193
Db 740 GAGAAAGCAAGAGATGAGAAGAGAGGAG 772
Qy 194 LysMet-ProLeuThrGluTyRLeuLysArgIleLysLeuProAsnSerLeaPserTy 213
Db 773 AAAGAAGTTGIGGT-----ATTGATCCC--- 796

RESULT 4
US-09-949-016-5678
Sequence 5678, Application US/09949016
; Parent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

Db 1868 ATTATAAGGAGGAACTCTGTGTCG --GCAGATGGATCCTACTGATG 1924
 Qy 583 ThrLeuLysAlaGlySerValPheGlyGluLeSerLeuLeAlaAlaGly------ 600
 Db 1925 GTATTAGCGATGGCACTACTCTGGAGATCAGCATCTAACGTTAACGAA 1984
 Qy 601 ---GlyAsnAlaGargThrAlaAsnValAlaHisGlyPhalaAsnLeuIleu 619
 Db 1985 GCTGGAACTCAGAGACGCCATATAAAGTATGGTACTACAGCTAACCTG 2044
 Qy 620 AspLysLysThrLeuLysGluLysLeuValHistYProAspSerGluArgIleLeuMet 639
 Db 2045 TCAAAAGATGACCTCTGGAACTCTRACTGACTGATCCAGATGCCAAACTTG 2104
 Qy 640 LysLysAlaArgValLeuLeuLysGlnLysAla-----LysThrLagLala 655
 Db 2105 GAGAAAGGAAGCAGATTAAATGAAAGATGGTCTACTGGATCTAACATGCAATGCT 2164
 Qy 656 ThrProProArgDysSpleaLeuLeuProProArgLysGluGlyGAGGTACTCGAATGGAGGGTCAGTAGACCTC 2224
 Db 676 PhelyrThrLeuLeuLysGlyGlyThrGlyLysAlaSerLeuAlaArgLeuLeu 692
 Db 2225 CTGCAACC-----AGGTTGGATCTTGCTGAGT 2260
 Qy 693 -----LysLeuLysAsnGluGlnAlaAlaGlnLys----- 703
 Db 2261 GAGTCATGAGCAGAACTGAACAAAGATTAACCAAGGTTGAGAAATTCTGAAACCG 2320
 Qy 704 -----GluAsnSerGluGly---GlyGluGluGluGly 713
 Db 2321 CTTATTGACACAGAAATTCAAGTATGAGGACCTGGAGCGGAAGTGGG 2371

RESULT 5

US-09-949-016-16086

Sequence 16086, Application US/09949016

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: C1001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FAST-SEQ for Windows Version 4.0

; SEQ ID NO 16086

; LENGTH: 32666

; TYPE: DNA

; ORGANISM: Human

; US-09-949-016-16086

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
2	2.44e-71	32666	167	108	169	37	11
3	748.50						

US-09-855-828-1 (1-809) x US-09-949-016-16086 (1-32666)

Qy 275 LeuGlnPheValArgLysGlyAspIleLevalAspSerAsnGluLeuArgLysHistYr 294
 Db 27904 TTAGGTTTCTCCAGCAAGGCTTAATGGTCAGTGTACCAACAGCTGTCGGCAGGATTAC

QY 679 Leuleuglyglythrglyvalysalasseleualangleleu-----
 Db 82009 -----Aggrtgccgaaatcgcttgactatgacatcg 82044
 QY 693 -----LysLeulysArgGluglinalaAlaGlnlysLys------ 703
 Db 82045 CAGGAACTGAAACAAAGATTACCAAGGTGGAAATTCTGAAACCGCTTTGAC 82104
 QY 704 -----Gluasnserglugly---glygluglugly 713
 Db 82105 ACAGAATTCAAGTATGAGGGACTGGAGCGGAAGTGGG 82146
 RESULT 7
 US-09-927-267-2
 Sequence 2, Application US/09927267
 Patent No. 6933147
 GENERAL INFORMATION:
 APPLICANT: Creech, Christopher D.
 APPLICANT: Jegla, Timothy J.
 APPLICANT: Icagen, Inc.
 TITLE OF INVENTION: CNG2B; A No. 6933147el Human Cyclic Nucleotide-Gated Ion Channel
 FILE REFERENCE: 018512-006510US
 CURRENT APPLICATION NUMBER: US/09/927,267
 CURRENT FILING DATE: 2001-08-10
 PRIOR APPLICATION NUMBER: US 60/226,253
 PRIOR FILING DATE: 2000-08-17
 NUMBER OF SEQ ID NOS: 16
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 2308
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)
 OTHER INFORMATION: complete nucleotide sequence derived from assembly
 OTHER INFORMATION: of PCR fragments
 NAME/KEY: CDS
 LOCATION: (333)..(2060)
 OTHER INFORMATION: CNG2B
 US-09-927-267-2
 Alignment Scores:
 Pred. No.: 1.85e-64 Length: 2308
 Score: 669.50 Matches: 202
 Percent Similarity: 46.3% Conservative: 140
 Best Local Similarity: 27.3% Mismatches: 295
 Query Match: 15.8% Indels: 103
 DB: 3 Gaps: 25

Db 1237 TTRGGGAGATCAGGATCATCAACTCTAACAGGAACATGTCGGAAAGCCGCCGCAGCC 1296
QY ||||: ;:: ;||:||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 1297 AACATCAAGAGCCTTGGTTTACGACCTATTCTTGTGCAAAGGAGGACTGGGGAG 1356
QY :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 627 IleLeuIvaAlaHisGlyPheAlaAsnLeuLeuThrLeuAspLysThrLeuLeuLysLys 626
QY ||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 646 LeuLys-----GlnLeuIvaAlaHisGlyPheAlaAsnLeuLeuLysLysLysLysLys 655
QY ||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 1417 CTGAAATGACAACATGGAGCTGATGCTGAGGAGCTGAGATGCCCTGAGAGGCC 1476
QY ||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 656 ThrProProArgLysAspIleAlaLeuPheProProLysGluGluLysLeu 675
QY ||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
Db 1477 ACAGGGTCCCGG----CTACGAGCCCTAGACCCACTCAGTCAAGCCAAAG 1530
QY 676 PheIysThrIleLysLysGlyGlyIleIysLysAlaSerLeuAlaArgLeuLeuLysLys 695
Db 1531 TTGCTCGCTCCCTGCTGAGCTGGAGTCAGCAGCCTTACGGCTTGAA 1590
QY 696 ArgGluGlnAlaAlaAlaGlnIysLys-----GluAsnSerGluGlyGlyGluGlu 711
Db 1591 CGGGTGGAGGCGAGACTCGAGAGGGCCATGCCGAGGACTCTGGCTGAGCTGAC 1650
QY 712 GluGlyLysGluAsnGluAspLysGlnLysGluAsnGluAspLysGlnLysGlu 731
Db 1651 GAGGTGAGCTGAGGAGGAATTCCTCAAGATGAGAGGAGGCCAGGGAGGG 1710
QY 732 AspIysGlyLysGlu 736
Db 1711 CCCCCAGGGTCCAGAG 1725

RESULT 10
US-09-49-016-38930/c
; Sequence 38930, Application US/09949016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/49,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 681239
; PRIOR FILING DATE: 2002-02-20
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/49,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 205286
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-205286
Alignment Scores:
Pred. No.: 3.81e-53 Length: 601
Score: 560.00 Matches: 109
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 13.2% Indels: 0
DB: 3 Gaps: 0

US-09-855-828-1 (1-809) x US-09-949-016-205286 (1-601)
QY 701 GluLysLysGluAsnSerGluGlyGlyGluGluGluLysGluAsnGluAspGln 720
Db 414 CAGAGCAAGAAAGAAATCTGAGGAGGAGGAGAAGAAATGAGATAACAA 355
QY 721 LysGluAsnLysAspLysGlnLysGluAsnGluAspLysGlyLysGluAsnGluAspLys 740
Db 354 AAAGAAATGAGATAAACAAAGAAATGAGATAAACAAAGAAATGAGATAAA 295
QY 741 AspLysGlyArgGluProGluGluLysProLeuPargProGluCystThrLaserPro 760
Db 294 GATAAAGGAGAGGCCAGAGAGAAGGCCACTGGACAGACCTGAAATGAGTACAGTCT 235
QY 761 IleAlaValGluGluGluProHisSerValArgGlyGlyGluGluLeuProArgGlyThr 780
Db 234 ATTCGAGTGGAGGAAGACCCACTCAGTGAAGCACGTTTACCCAGGGACTCT 175
QY 781 ArgGlnSerLeuIleIleSerMetAlaProSerAlaGlyGlyGluGluValLeuThr 800

Db	95404	ATACAGTGCTTGCATGACTCATATAATGAACTCAATTATCAA	95463	Db	96484	CCTGTGGGAAATGAAAGATCATACTAGGAAAGGATAAGTTCTCCCTGAGGTCT	95543
Qy	700	--	--	Qy	700	--	-- 700
Db	95464	TTGATCAAATTAAATAGTAGTGTAACTCTAACAAAACACAGTAACAAAGTATACATT	95523	Db	96544	CCCACAGCTTAGGAGAGGAAACCCACTTTACAGTATTATATAGTATGGT	96603
Qy	700	--	--	Qy	700	--	-- 700
Db	95524	GACCAATTGACAATAATTAGGCTTGAAACCATAATCTCATAGGAACCTAATGCTGT	95583	Db	96604	TAATATGTTTATTAAATAATTTAAATTATCTACAGAAATAAT	96663
Qy	700	--	--	Qy	700	--	-- 700
Db	95584	ATTCTCCAAGAACATGGTCAGTACTGCTTAAC TGCTGTTGGAATTATAG	95643	Db	96664	TTAAAAGCAAAACAGAGGAGCTGACTTAATTACATCAGAGGTATAAGGAC	96723
Qy	700	--	--	Qy	700	--	-- 700
Db	95644	AACAAACTAATGATAAAATCAACTGTATAATACAGACATACTATGGATAAA	95703	Db	96724	AATAGGAAGAGAATTCTTGCGAGAGACAAAAAATGCAATTCAACTACATCATGAGT	96783
Qy	700	--	--	Qy	700	--	-- 700
Db	95764	TTAAGCCCAAATAACTTGTAAATTCAAGCTTCTCATGTATAGTGAGAAA	95823	Db	96784	AAAGCAGACATGATTCCTGATTCACTTAACTCAGACAGCAGCTGCTTGCGGGTGA	96903
Qy	700	--	--	Qy	700	--	-- 700
Db	95704	ATAAATPACCCATTATCAACATTTCACAAATAATTCAACTATAGATACAAATGT	95763	Db	96784	AAAGCAGACATGATTCCTGATTCACTTAACTCAGACAGCAGCTGCTTGCGGGTGA	96903
Qy	700	--	--	Qy	700	--	-- 700
Db	95824	CTGAAACACCAGTCAGGGATTGGATAAGATCATATTAGTACAGAGGAGCTAT	95883	Db	96904	GCCATTCGCACTAATCAAACTCAATGTTTATTAGATTCAACACCAGT	96963
Qy	700	--	--	Qy	701	--	-- 700
Db	95884	TACTCAGGTGTCACTTACAGGCCCTACACTAAGCTGCCITCTCAATTCTAAATGTA	95943	Db	96964	CTTGTAAATGCTCTCCAGAAGAGAAATTCTGAGGAGGAGGAGAAGA	97023
Qy	700	--	--	Qy	715	GluAsnGlyAspLysGlnLysGluAsnGluAspLysGlnLysGluAsnGluAspLysGly	734
Db	95944	AAAGAAACTCAAAATGTTATGTTCTCTCTCTCTTTTGTTGTTCATATT	96003	Db	97024	GAAATGAGATAAACAAAGAAATGAGATAAACAAAGAAATGAGATAAACAAAGAAATGAGATAAACAA	97083
Qy	700	--	--	Qy	735	DYSGLIAsnGluAspLysGlyAsnGluAspLysGlyAsnGluAspLysGly	714
Db	96004	TTGTATCTCATTAATTAGCCTPTGAGGGCAGATTGAGAACAGACAGAGCCAGGGATTC	96063	Db	97144	GAATGTCACAGCAAGTCCTATGCACTGGAGGAAGAACCACTCAGTTAGAGGACAGT	97203
Qy	700	--	--	Qy	775	LeuProArgLysThrSerArgLysSerLeuIleSerMetAlaProSerAlaGluGly	794
Db	96064	AGGTTTCTGAACTAGTCATTATGTTATCTAAACTGJAGAAATGGTAGCTGTGGA	96123	Db	97204	TTACCCAGAGGAGCTCTCGTCATCACTTATGAGTGGCTCTCTGAGG3C	97263
Qy	700	--	--	Qy	795	GLYGLUGLVALLEUTHRLIEGLUVALYLysGluLysAlaLysGin	809
Db	96124	CCTTCAGAAAATAAGTAAAGCACATATAAAGTCAGTCACATACAAAGATGAAAC	96183	Db	97264	GGAGAGAGGTCTACTATGAGTCAGAACAGAACAGCTAGCAA	97308
Qy	700	--	--				
Db	96184	TTGCAATTCTTCCACACATACACACTGGTGAAGTTAGGGATCCAGTAAAC	96243				
Qy	700	--	--				
		RESULT 13					
		US-09-949-016-17540					
		; Sequence 1740, Application US/09949016					
		; Patent No. 6812339					
		; GENERAL INFORMATION:					
		; APPLICANT: Venter, J. Craig et al.					
		; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED					
		; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF					
		; FILE REFERENCE: C101307					
		; CURRENT APPLICATION NUMBER: US/09/949, 016					
		; CURRENT FILING DATE: 2000-04-14					
		; PRIOR APPLICATION NUMBER: 60/241, 755					
		; PRIOR FILING DATE: 2000-10-20					
		; PRIOR APPLICATION NUMBER: 60/237, 768					
		; PRIOR FILING DATE: 2000-10-03					
		; PRIOR APPLICATION NUMBER: 60/231, 498					
		; PRIOR FILING DATE: 2000-03-08					
		; NUMBER OF SEQ ID NOS.: 207012					
		; SOFTWARE: FastSEQ for Windows Version 4.0					

; SEQ_ID NO 17540
; LENGTH: 99370
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-17540

Alignment Scores:
Pred. No.: 3.05e-49 Length: 99370
Score: 56.00 Matches: 215
Percent Similarity: 18.7% Conservative: 1
Best Local Similarity: 18.6% Mismatches: 5
Query Match: 13.2% Indels: 936
DB: 3 Gaps: 2

US-09-855-828-1 (1-809) x US-09-949-016-17540 (1-99370)

Qy 589 ValPheGlyGluIleSerLeuLeuAlaAlaGlyGlyGlyAlaArgArgThrAlaAsnVal 608
Db 93846 ATTTCCTCTCTACAGCTTCTAGCAGCAGGAGGAGAACCGTGAACTGCCAATGTG 93905
Qy 609 ValAlaHisGlyPheAlaAsnLeuLeuThrIleAspLysThrLeuGluIleLeu 628
Db 93906 GTGGCCACGGTTGCGCAATCTTACTCTAGACAAAGACCCTCCAAAGAACTCTA 93965
Qy 629 ValHistYProAspSerGluArgIleLeuMetLysLysAla 642
Db 93966 GTGCATTATCCAGATTCCTGAAGGATCTCATGAAAGAACCCCTCCAAAGAACTCTA 94024
Qy 642 -- 642
Db 94025 CACCATTTAGAGTAGGATGGACTTGTTACTCTGTAACACTGAGATAGGGAGAACCGT 94084
Qy 642 -- 642
Db 94085 ATATGATTTGATAACTTGTCACAGTAGGATAATGCTTATGAAACAACATTTATGTA 94144
Qy 642 -- 642
Db 94145 GGTTACCCATTGAACTCACAGGTTAGGATAATGCAAGTTTTAGTAGATTTGCCA 94204
Qy 643 -- ArgValLeuIleLys 647
Db 94205 GAACTCTACAGAGTTACTAAACAGCTTCTCTCTACCCAGAGCTTTAAAG 94264
Qy 648 GluValAlaLysThrAlaIglAlaLysThrProProArgLysAspLeuLeuIlePro 667
Db 94265 CAGAACGCTAAAGACCGAGAAGAACCCCTCCAAAGAAAGACTCTGCCCTCTCCCA 94324
Qy 668 ProLysgLugIuThrProLeuIlePheLysThrLeuIleUgLyLysLysLaser 687
Db 94325 CGGAAAGAGAGAACACCCAAACTGTAAACTCTCTAGGGCACAGGAAGAAGCT 94384
Qy 688 LeuAlaArgLeuLeuIleLeuIysArgGluGlnAlaAla--- 700
Db 94385 CTGCAAGACTCTCAATCTGAGGAGGAGCAGC-TCAAGTTATAAGTGGAGTGA 94413
Qy 700 -- 700
Db 94444 ATGGACGGCTGTATGGAGAAGGCCCAAGACTAAGTATACACAAACCCCCACTCA 94503
Qy 700 -- 700
Db 94504 ATTCCATTTCAGACACTGGGATGTTGGACTPATCTPATACCTAATCTCCTGTTAT 94563
Qy 700 -- 700
Db 94564 ATATAGCACATTTATTAATCTGTAATGCTTACATCTACATTAACTTACCTC 94623
Qy 700 -- 700
Db 94624 AGGATGTTATGATGGCTTATATCATGTTATATAACAGAGTATACCTCAT 94683
Qy 700 -- 700

Db 94684 TCATAGATTATTCAGATCTATATGGTAATCTACTTATATTAGTAATCT 94743
Qy 700 -- 700
Db 94744 TAAATCAACTCTGGCTTCTGGCTATTTGGAAACAGCACCGTGCAAGGG 94803
Qy 700 -- 700
Db 94804 CAAAAATTAAAGTGTGATGCTACATTTCTAGCTGAGTTGAAAAGAGGACTC 94863
Qy 700 -- 700
Db 94864 TCCTTCTCTGTTCTGCTGATACTTAAACGAATGACCCCTGGCGGGTGG 94923
Qy 700 -- 700
Db 94924 CACACCTGTAATCCCGACACTTGGAGACCAAGGGGGCGGATCACGAGGCAGAGT 94983
Qy 700 -- 700
Db 94984 CGAGACATTCTGACTAACACCGTGAAACCCGTCTACTGAAACACAAAAATAGC 95043
Qy 700 -- 700
Db 95044 CGGGCATGGTGGCACACACCTGTAGTCCACACTTGGAGGCTGAGGCAAGAGAATG 95103
Qy 700 -- 700
Db 95104 CTGGAATCCGGGAGGAAAGTTGAGTGAAGCCGAGATCACAAACACTGACTCCAGCTG 95163
Qy 700 -- 700
Db 95224 AGAGTGACACTTTAGTGGCCATGCTTTCACATTTGCTTTGCAATGTTGATG 95283
Qy 700 -- 700
Db 95284 TTGCTGCTAAATAGCCCCAAGCTATAGTCTGAATAATCTGCTCTAGTGC 95343
Qy 700 -- 700
Db 95344 CAAATGCTGIGATGTCCTCCAGAGAAATACTGTTAGGTAAACTCTCATTCAGGC 95403
Qy 700 -- 700
Db 95404 ATTACAGTGTGTTGCATGAGTCATAATGATCAAATACCTCAATTATCAA 95463
Qy 700 -- 700
Db 95464 TTGATCAAATTAATAGTGTATCTCTAAACAAACACACATGAAACAAAGTATACATT 95523
Qy 700 -- 700
Db 95524 GACCAATTGACAAATATTTATGGCTGAAACCTAATATCTCATAGGAACCTAATGCTG 95583
Qy 700 -- 700
Db 95584 ATTCCCTCAAGAACAGATGGTCAGTACTCTCAACTTGCTGTTGTGAAATTATAG 95643
Qy 700 -- 700
Db 95644 ACAAAACTACATGAAATAATCACTACTGTTACATGAAACATACATGATATAA 95703
Qy 700 -- 700
Db 95704 ATAATAACCCATTATPATCACATTTCAAAATTCATTAACAGAGTATACCTCAT 95763
Qy 700 -- 700

Db 344 GATTAAGGAGGAGCCAGAAGAGCCTGGACAGACTGATGACAGCACTCT 285
 Qy 761 IleAlaValGluglughuProHisSerValArgThrValLeuroArgLysThr 780
 Db 284 ATTGCAGTGGAGGAAGACCCACTCGTTAGAGGAGCTTACCCAGGGACTCT 225

Qy 781 ArgGlnSerLeuIleSerMetAlaProSerAlaGluGlyGluGluValLeuThr 800
 Db 224 CGTCAACTACTCATTACGCTTGCCCTCTGCTGAGGGAGAGGTTCTACT 165

Qy 801 IleGluValLysGluLysAlaLysGln 809
 Db 164 ATTGAGTCAGAAGAGCTAGCAA 138

RESULT 15
 US-09-949-016-205287/c

; Sequence 205287, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 205287

; LENGTH: 601

; TYPE: DNA

; ORGANISM: Human

; US-09-949-016-205287

Alignment Scores:

Pred. No.: 1.81e-52

Score: 554.00

Percent Similarity: 99.1%

Best Local Similarity: 99.1%

Query Match: 13.1%

DB: 3

Gaps: 0

Length: 601

Matches: 108

Conservative: 0

Mismatches: 1

Indels: 0

Length: 601

Matches: 108

Conservative: 0

Mismatches: 1

Indels: 0

Gaps: 0

US-09-855-828-1 (1-809) x US-09-949-016-205287 (1-601)

Qy 701 GluLysLysGluAsnSerGluGlyGlyGluGluGluLysGluAsnGluLysGln 720

Db 464 CAGAACGAGAACATTCTGAAGGAGGAGGAGAACGAAATGAGATAACAA 405

Qy 721 LysGluAsnGluAspLysGluAsnGluAspLysGluGlyGluLysGluAsnGluLys 740

Db 404 AACAGAACATGAGATAACAAACAAAGAACATGAGATAAGGAAAGAACATGATAAA 345

Qy 741 AspLysGlyArgGluProGluLysProLeuAspArgProGluCystAlaSerPro 760

Db 344 GATAAGGAAGGAGCCAGAGAGAGGCCACGGACAGACCTGTACGGCAAGTCCT 285

Qy 761 IleAlaValGluglughuProHisSerValArgArgThrValLeuProArgGlyThrSer 780

Db 284 ATTGCACTGAGGAGAACCCACTCTGTTACCCAGGGACTCT 225

Qy 781 ArgGlnSerLeuIleSerMetAlaProSerAlaGluGlyGluGluValLeuThr 800

Db 224 CGTCAACTACTCATTACGCTGGCTCTCTGCTGAGGGAGAGGTTCTACT 165

Qy 801 IleGluValLysGluLysAlaLysGln 809

Db 164 ATTGAAGTCAGAAGAGCTAGCAA 138

Search completed: May 19, 2006, 00:58:36
 Job time : 960 secs

This Page Blank (uspto)

GenCore version 5.1.8
 Copyright (c) 1993 - 2006 Biocceleration Ltd.

Om nucleic - nucleic search, using sw model
 Run on: May 18, 2006, 23:59:38 ; Search time 820 Seconds
 (without alignments)

5544.871 Million cell updates/sec
 Title: US-09-855-828-3
 Perfect score: 2430
 Sequence: 1atgttaatcgctgacaaa.....aagaaaaaggcttaagcaataa 2430

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 1403666 seqs, 93555401 residues
 Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : issued Patents NA:
 1: /EMC_Gelerra_SINS3/prodata/2/ina/1-COMB.seq: *
 2: /EMC_Gelerra_SINS3/prodata/2/ina/5-COMB.seq: *
 3: /EMC_Gelerra_SINS3/prodata/2/ina/6-COMB.seq: *
 4: /EMC_Gelerra_SINS3/prodata/2/ina/7-COMB.seq: *
 5: /EMC_Gelerra_SINS3/prodata/2/ina/H-COMB.seq: *
 6: /EMC_Gelerra_SINS3/prodata/2/ina/PCTUS-COMB.seq: *
 7: /EMC_Gelerra_SINS3/prodata/2/ina/PP-COMB.seq: *
 8: /EMC_Gelerra_SINS3/prodata/2/ina/RE-COMB.seq: *
 9: /EMC_Gelerra_SINS3/prodata/2/ina/bckfiles1.seq: *
 10: /EMC_Gelerra_SIDS3/prodata/2/ina/bckfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

```
RESULT 1
US-09-949-016-1074
; Sequence 1074, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL011307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 1074
; LENGTH: 2135
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-1074
```

Result No.	Score	Query Match Length	DB ID	Description
1	2049.4	84.3	2135	US-09-949-016-1074
2	2035.4	83.8	2139	Sequence 1074, AP
3	33.0	13.6	99370	Sequence 5798, AP
4	33.0	13.6	99370	Sequence 12816, A
5	329.6	13.6	601	Sequence 17540, A
6	329.6	13.6	601	Sequence 38930, A
7	329.6	13.6	601	Sequence 38931, A
8	329.6	13.6	601	Sequence 205286, A
9	202	8.3	601	Sequence 38898, A
10	202	8.3	601	Sequence 205176, A
11	181.2	7.5	2196	US-09-949-016-5678
12	169.8	7.0	84571	Sequence 17420, A
13	151.4	6.2	601	Sequence 38897, A
14	151.4	6.2	601	Sequence 205175, A
15	147.6	6.1	601	Sequence 38915, A
16	147.6	6.1	601	Sequence 205176, A
17	144.6	6.0	601	Sequence 5678, AP
18	144.6	6.0	601	Sequence 205229, A
19	143.9	5.9	601	Sequence 38929, A
20	143.9	5.9	601	Sequence 205285, A
21	132.8	5.5	3470	Sequence 4344, AP
22	132.8	5.5	3470	Sequence 1606, A
23	102.6	4.2	601	Sequence 38918, A

Db 241 |||||AGATGCCCTAACAGAGTACTTAAGGAATTAACTTCCAAACGCATGATTAC 300
 Qy 640 ACGAGTCGACTCTATCCTGGCTTGTGCACTCTGCCTATACTGGACTGC 699
 Db 301 ACAGATCGACTCTATCCTGGCTTGTGCACTCTGCCTATACTGGACTGC 360
 Qy 700 TCGTTTACCATGCGCTCTCCATCAAACGGAGACACATRACTGG 759
 Db 361 TCTTTTATACCATCTGCCTCTCCATCAAACCGAGACACATRACTGG 420
 Qy 760 CTTATGGGAGAATGATATGATATCATCTACCTTATGATGTTATTCCAGCCC 819
 Db 421 CTTATGGGAGAATGATATGATATCATCTACCTTATGATGTTATTCCAGCCC 480
 Qy 820 AGACITCGAGTTGTAAGAGGAGACATAATGATGCAATAGCTAGGAAAC 879
 Db 481 AGACITCGAGTTGTAAGAGGAGACATAATGATGCAATAGCTAGGAAAC 540
 Qy 880 TAAGAGCTCTACAAATTCTAGTGGATGTCATCAATACCATTTGATTCG 939
 Db 541 TCAAGACTCTTACAATTCAGTGGATGTCATCAATACCATTTGATTCG 600
 Qy 940 TAATCTCTTGGGTTAATCCAACTTAGTGGATGTCATCAATACCATTTGATTCG 999
 Db 601 TACTCTCTTGGGTTAATCCAACTTAGTGGATGTCATCAATACCATTTGATTCG 660
 Qy 1000 TTTTGAAATTAACTCACTTAGTGGATGTCATATGACAAGCATATCTACAGTT 1059
 Db 661 TTITTGAAATTAACTCACTTAGTGGATGTCATATGACAAGCATATCTACAGTT 720
 Qy 1060 ATTCGACAACCTGGACTCTGGTTATCTGCACATAATGCCCTGGTTATCTGG 1119
 Db 721 ATTGCAACAATCTGGATCTCTGGTTATCTGCACATAATGCCCTGGTTATCTGG 780
 Qy 1120 GCTTCAACTATGAGGGATTGGCACTACTAGTGGGTTAGTGGGAAAGGAG 1179
 Db 781 GCTTCAACTATGAGGGATTGGCACTACTAGTGGGTTAGTGGGAAAGGAG 840
 Qy 1180 TATCTGAGATGTTATGGCGAGTGGCACTTAACTACATTGGCCCTCCAGAA 1239
 Db 841 TATCTGAGATGTTATGGCGAGTGGCACTTAACTACATTGGCCCTCCAGAA 900
 Qy 1240 CCACAACCTTATGAAATTGTTCACTCTGAATTCTGGGTTTGTG 1299
 Db 901 CCACAACCTTATGAAATTGTTCACTCTGAATTCTGGGTTTGTG 960
 Qy 1300 TTCTCCAGTTATGGTCACTGAGATGTTGAGGAGCTAACGGCATCAGAC 1359
 Db 961 TTCTCCAGTTATGGTCACTGAGATGTTGAGGAGCTAACGGCATCAGAC 1020
 Qy 1360 TACTTCGGCGCTGCACTGAGATGACATTGCCCTACGAAATTCTCAA 1419
 Db 1021 TCTTCGGCGCTGCACTGAGATGACATTGCCCTACGAAATTCTCAA 1080
 Qy 1420 CTGTGCAAACGGAGTCGACTTGTGATGATACTGGACTCTCAAAGATGCTA 1479
 Db 1081 CTGTGCAAACGGAGTCGACTTGTGATGATACTGGACTCTCAAAGATGCTA 1140
 Qy 1480 GATGAGTCGATGTTGCTTAAGGCCCTACCAACTACGGCTCGTTAGGCCATGAT 1539
 Db 1141 GATGAGTCGATGTTGCTTAAGGCCCTACCAACTACGGCTCGTTAGGCCATGAT 1200
 Qy 1540 GTGAACTCAGGATCATCGCAAGTGCAGTGTCAAGGGTTGATACAGATGATT 1599
 Db 1201 GTGAACTCAGGATCATCGCAAGTGCAGTGTCAAGGGTTGATACAGATGATT 1260
 Qy 1600 TATGACATGTTCTAACTGAACTCGCTCTTGTGACTTGTGCAA 1659
 Db 1261 TATGACATGTTCTAACTGAACTCGCTCTTGTGACTTGTGCAA 1320
 Qy 1660 AGGGAAATTGGCAGGAATGATATCATCAAGATGGAGACTCCAACTCTGG 1719

Db 1321 AAGGGAGAAATTGGCAAGGAAATGTPATACATCAGCATGGAGAGTCCAAAGTCTTGGAA 1380
 Qy 1720 GGCCCTGATGTTACTAAAGTCTGTTTACTCTGAAAGCTGGTCTGGTTGGAGAAATC 1779
 Db 1381 GGCCTGTGTTACTAAAGTCTGTTTACTCTGAAAGCTGGTCTGGTTGGAGAAATC 1427
 Qy 1780 AGCCCTCTAGCAGCAGGAGGAGACCTGGCACTGGCAATGTTGGTGGCCACGGGTT 1839
 Db 1428 --CCCTCTAGCAGCAGGAGGAGACCTGGCACTGGCAATGTTGGTGGCCACGGGTT 1485
 Qy 1840 GCAAATCTTAACTCTAGACAAAGAACCTCCAGAAATTCTAGTGTATTTCAGAT 1899
 Db 1486 GCAAATCTTAACTCTAGACAAAGAACCTCCAGAAATTCTAGTGTATTTCAGAT 1545
 Qy 1900 TCTGAAGAGATCTCATGAGAAAGGCCAGGTCTCCAGAAATTCTAGTGTATTTCAGAT 1959
 Db 1546 TCTGAAGAGATCTCATGAGAAAGGCCAGGTCTCCAGAAATTCTAGTGTATTTCAGAT 1605
 Qy 1960 GAAGCAGCCCTCCAGAAAGATCTGGCTCTCTCCACCGAAAGAGACACC 2019
 Db 1606 GAAGCAGCCCTCCAGAAAGATCTGGCTCTCTCCACCGAAAGAGACACC 1665
 Qy 2020 AAACGTTTAAACTCTCTAGGGCAAGGAAAGCAAGTCTGCAAGACTCTCAA 2079
 Db 1666 AAACGTTTAAACTCTCTAGGGCAAGGAAAGCAAGTCTGCAAGACTCTCAA 1725
 Qy 2080 TTGAAGCGAGCAAGCAGTCAGGAGCACAGAAATTCTGAAGGAGGAGGA 2139
 Db 1726 TTGAAGCGAGCAAGCAGTCAGGAGCACAGAAATTCTGAAGGAGGAGGA 1785
 Qy 2140 AAAGAAATGAGATAACAAAGAAATGAGATAAACAAAGAAATGAGATAAA 2199
 Db 1786 AAAGAAATGAGATAAACAAAGAAATGAGATAAACAAAGAAATGAGATAAA 1845
 Qy 2200 GAAAGAAATGAGATAAGATAAACGAGAGAACGAGGAGCCACTGGACAGA 2259
 Db 1846 GAAAGAAATGAGATAAACGAGAGAACGAGGAGCCACTGGACAGA 1905
 Qy 2260 CCTGAGATGAGCTTGTGCACTTATGGAGGAGGAGGAGGAGCCACTGGACAGA 2319
 Db 1906 OCTGAATGTCAGCACTCTTATTCAGTGGAGGAGAACCCACTCACTGGAGGAGA 1965
 Qy 2320 GTTTRACCCGAGGAGCTCTGGCACTACTCACTTATGGAGGAGGAGGAGGAGGAG 2379
 Db 1966 GTTTRACCCGAGGAGCTCTGGCACTACTCACTTATGGAGGAGGAGGAGGAG 2025
 Qy 2380 GGCGERAGAGGTTCTTATGAGCTAACAGAAAGAACGCTAAGCAATAA 2430
 Db 2026 GCGGGAGAGGTTCTTACATGAGTCAGGAGAACGCTAAGCAATAA 2076

RESULT 2

US-09-949-016-5798

; Sequence 5798, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CLO01307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/337,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 5798

; LENGTH: 2139

; TYPE: DNA

; - ORGANISM: Human
US-09-949-016-5798

Query	Match	Similarity	Score	DB	Length	Start	End	Mismatches	Indels	Gaps	Best	Local	Conservative	Pred.	No.	Matches	2015
QY	340	CCACAAACAAACCGCCTGCAAGCTCGCTGTATAATGGAGATGCGCATGCCAGTCAC	2035.4	DB	3	Length	2139				1360	TACTTCGGCCTCTGATGAGATGACCATGCGCTACATGACAATTACTCCATTCAA	1419				
Db	1	CCACAAACAAACCGCCTGCAAGCTCGCTGTATAATGGAGATGCGCATGCCAGTCAC	99.0%	QY	0	Mismatches	1				1021	TACTTCGGCCTCTGATGAGATGACCATGCGCTACATGACAATTACTCCATTCAA	1080				
QY	400	AACCTGGTGAAGAGATGCGTAAGAACAGACGCCCTACAGAAAAGTTGGTAGAGGA	459	Db	61	AACTCTGGTGAAGAGATGCGTAAGAACAGACGCCCTACAGAAAAGTTGGTAGAGGA	459				1420	CTTGTCAAAGGAGTTGGCACTTGTTAATGGAGATGCGCATGCCAGTCAC	1479				
Db	460	GATCTCTCTCACCGAGCGGCCACAAACTGCAAGCCACGGCTGACAGAAAGGGAA	519	QY	181	AAAGAAAGCGGATGATAGCCACAGAACATTTACAGGTTGGTCAAGTCAA	519				1081	CTTGTCAAAGGAGTTGGCACTTGTTAATGGAGATGCGCATGCCAGTCAC	1140				
QY	580	AAGATGCCTTACAGAGTACTAAAGGAACTTAACGCAACTGCAAGCCACGGCTGAC	639	Db	241	AAGATGCCTTACAGAGTACTAAAGGAACTTAACGCAACTGCAAGCCACGGCTGAC	639				1480	GATGAGTCGTTGCTTAAGACCCATACACTAGGTCAGTGTAGCCCTGCCCATTG	1539				
Db	640	ACAGATGACTCTACTCCCTGGCTCTGCACTTTGCCTATACTGGACTGC	699	QY	301	ACAGATGACTCTACTCCCTGGCTCTGCACTTTGCCTATACTGGACTGC	699				121	GATGAGTCGTTGCTTAAGACCCATACACTAGGTCAGTGTAGCCCTGCCCATTG	180				
QY	700	TGTTTATACCACTGGCTCTGCTCCATATCAACCGAGACACATACACTACTGG	759	Db	361	TGTTTATACCACTGGCTCTGCTCCATATCAACCGAGACACATACACTACTGG	759				QY	520	AAGAAAGCGGATGATAGCCACAGAACATTTACAGGTTGGTCAAGTCAA	579			
Db	760	CTTATGGGAAQATCATATGTTACATACATTTACCTTATGATATGCTTATTCAGCC	819	QY	421	CTTATGGGAAQATCATATGTTACATACATTTACCTTATGATATGCTTATTCAGCC	819				1261	GATTATGACATGTTGCTAAGATGAACTCCGTTCTCATTCAGGATAGTCAC	120				
QY	820	AGACTCCAGTTGTAGAGGAGACATAATGGGATTCAATGAGCTAGGAACAC	879	Db	480	AGACTCCAGTTGTAGAGGAGACATAATGGGATTCAATGAGCTAGGAACAC	879				QY	165	CAAAGGGAGAAATGGCAGGAATGTTATCATCAAGCATGGAGAACTCCAAGT	1715			
Db	481	AGACTCCAGTTGTAGAGGAGACATAATGGGATTCAATGAGCTAGGAACAC	540	QY	880	TACAGACTCTACAATTCTAGTTGGATGTCGATCAATATACCTATTGATATTG	759				Db	1321	CAAAAGGGAGAAATGGCAGGAATGTTATCATCAAGCATGGAGAACTCCAAGT	1380			
QY	541	TACAGACTCTCCAATTCTAGTTGGATGTCGATCAATATACCTATTGATATTG	600	Db	1432	-----CCTCTCTAGCAGCAGAGGAGGAAACCGTGAACTGCGCAATGTCG	1432				QY	159	GATTATGACATGTTGCTAAGATGAACTCCGTTCTCATTCAGGATAGTCAC	1655			
Db	940	TACCTCTCTTGGGTTTAATCCAACTGTTAGGAAATGGATCTTAAGTACTTC	999	QY	601	TACCTCTCTTGGGTTTAATCCAACTGTTAGGAAATGGATCTTAAGTACTTC	999				1260	GTGAACCTTCAGCAGCTGACTAAAGTCTGTTACTCTGAGCTGGTACATCAG	1431				
QY	1000	TTTTGAAATTATCATCACCTAGCTTAAATGGACAAAGCATATCTACAGTT	1059	Db	660	TTTTGAAATTATCATCACCTAGCTTAAATGGACAAAGCATATCTACAGTT	1059				QY	1776	AATCAGCCCTCTAGCAGCAGGAGGAAACCGTGACTGCCATGTTGGCCAC	1835			
Db	661	TTTTGAAATTATCATCACCTAGCTTAAATGGACAAAGCATATCTACAGTT	720	QY	1060	ATTCGAAACAATGGTACTCTGGTTTATTCGCAATTATGGCTGTTTAACTGG	1119				Db	1433	-----CCTCTCTAGCAGCAGAGGAGGAAACCGTGAACTGCGCAATGTCG	1485			
QY	721	ATTCGAAACAATGGTACTCTGGTTTATTCGCAATTATGGCTGTTTAACTGG	780	Db	1434	-----CCTCTCTAGCAGCAGAGGAGGAAACCGTGAACTGCGCAATGTCG	1434				QY	1836	GTGGCCAATCTTTACCTAGACAAAGACCCCTCCAGAAATCTAGCATTATC	1895			
Db	1120	GCTTCAACTATGAGGAATGGCACTACTAGTAGGGTTATGGGGAGGAAACGAG	1179	QY	781	GCTTCAACTATGAGGAATGGCACTACTAGTAGGGTTATGGGGAGGAAACGAG	1179				Db	1486	GTTCGCCAATCTTTACCTAGACAAAGACCCCTCCAGAAATCTAGCATTATC	1545			
QY	1180	TATCTGAGATGTTATGGCACTACTAGTAGGGTTATGGGGAGGAAACGAG	840	Db	1487	GTTCGCCAACTATGAGGAATGGCACTACTAGTAGGGTTATGGGGAGGAAACGAG	840				QY	1896	AGATTCGTGAAAGGATCTCTAGACAAAGACCCAGTGTGTTAAGCAGAGG	1955			
Db	841	TATCTGAGATGTTATGGCACTACTAGTAGGGTTATGGGGAGGAAACGAG	900	QY	1240	CCACAACTTATGGCACTCTGCAATTGGGGAGGAAACGAG	1299				Db	1546	AGATTCGTGAAAGGATCTCTAGACAAAGACCCAGTGTGTTAAGCAGAGG	1605			
QY	901	CCACAACTTATGGCACTCTGCAATTGGGGAGGAAACGAG	960	Db	1547	AGATTCGTGAAAGGATCTCTAGACAAAGACCCAGTGTGTTAAGCAGAGG	1547				QY	1956	CCGAGAACCCCTCCAGAAAGATCTGGCCCTCCCTCCACCGAAAGAGAC	2015			
Db	1300	TTCTCGATTATGGCACTAGAGAGATGTGAGCTAGGAGGAGCTACGCCATAGAAC	1359	Db	1548	AGATTCGTGAAAGGATCTCTAGACAAAGACCCAGTGTGTTAAGCAGAGG	1548				Db	1606	CGCAGACGACCCCTCCAGAAAGATCTGGCCCTCCCTCCACCGAAAGAGAC	1665			
QY				Db	1549	AGATTCGTGAAAGGATCTCTAGACAAAGACCCAGTGTGTTAAGCAGAGG	1549				QY	2016	ACCCAACTGTTAACACCTCTCTAGGAAACCCAGAGTGTGTTAAGCAGAGG	2075			
Db				Db	1550	ACCCAACTGTTAACACCTCTCTAGGAAACCCAGAGTGTGTTAAGCAGAGG	1550				Db	1666	ACCCAACTGTTAACACCTCTCTAGGAAACCCAGAGTGTGTTAAGCAGAGG	1725			
				Db	1551	ACCCAACTGTTAACACCTCTCTAGGAAACCCAGAGTGTGTTAAGCAGAGG	1551				QY	2017	CAATTGAGGAGGAGCAGCAGCTAGAGAAAGAAATCTGAGGGAGGAGAA	2135			
				Db	1552	CAATTGAGGAGGAGCAGCAGCTAGAGAAAGAAATCTGAGGGAGGAGAA	1552				Db	1726	CAATTGAGGAGGAGCAGCAGCTAGAGAAAGAAATCTGAGGGAGGAGAA	1785			
				Db	1553	CAATTGAGGAGGAGCAGCAGCTAGAGAAAGAAATCTGAGGGAGGAGAA	1553				QY	2136	AGGAAAGAAATGAGATAACAAAGAAAGAGATAACAAAGAAATGAGAA	2195			
				Db	1554	AGGAAAGAAATGAGATAACAAAGAAAGAGATAACAAAGAAATGAGAA	1554				Db	1786	AGGAAAGAAATGAGATAACAAAGAAAGAGATAACAAAGAAATGAGAA	1845			
				Db	1555	AGGAAAGAAATGAGATAACAAAGAAAGAGATAACAAAGAAATGAGAA	1555				QY	2196	TAAGGAAAGAAATGAGATAACAAAGAGATAACAAAGAAATGAGAA	2255			
				Db	1556	TAAGGAAAGAAATGAGATAACAAAGAGATAACAAAGAAATGAGAA	1556				Db	1846	TAAGGAAAGAAATGAGATAACAAAGAGATAACAAAGAAATGAGAA	1905			
				Db	1557	TAAGGAAAGAAATGAGATAACAAAGAGATAACAAAGAAATGAGAA	1557				QY	2257	GACAGTTACCCAGGAGACTTCMGTCAATTGAGAGAAACCCACTGAG	2315			
				Db	1558	GACAGTTACCCAGGAGACTTCMGTCAATTGAGAGAAACCCACTGAG	1558				Db	1906	CAGACCTGAGATGAGCACTGAGCTGAGCTGAGGAGAAACCCACTGAG	1965			
				Db	1559	CAGACCTGAGATGAGCACTGAGCTGAGGAGAAACCCACTGAG	1559				QY	2316	GACAGTTACCCAGGAGACTTCMGTCAATTGAGAGAAACCCACTGAG	2375			
				Db	1560	GACAGTTACCCAGGAGACTTCMGTCAATTGAGAGAAACCCACTGAG	1560				Db	1967	GACAGTTACCCAGGAGACTTCMGTCAATTGAGAGAAACCCACTGAG	2025			
				Db	1561	TAAGGGGAGAGAAAGAGATAACAAAGAAATGAGAGAAACCCACTGAG	1561				QY	2376	TGAGGGGAGAGAGGTCTTACTTAACTGAGGAGAAACCCACTGAG	2430			
				Db	1562	TGAGGGGAGAGAGGTCTTACTTAACTGAGGAGAAACCCACTGAG	1562				Db	2026	TGAGGGGAGAGAGGTCTTACTTAACTGAGGAGAAACCCACTGAG	2080			

RESULT 3
US-09-949-016-12816
; Sequence 12816, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 6/0/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 6/0/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 6/0/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 12816
; LENGTH: 99370
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-12816

Query Match 13.6%; Score 330; DB 3; Length 99370;
Best Local Similarity 100.0%; Pred. No. 2.4e-70;
Matches 330; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2101 CAGAGAAAGAAATTCTGAGGGAGGAGGAAGAAATGAGATAAACCA 2160
Db 96982 CAGAGAAAGAAATTCTGAGGGAGGAGGAAGAAATGAGATAAACCA 97041
Qy 2161 AAAGAAATGAGATAAACAAAGAAATGAGATAAGGAAGAAATGAGATAAA 2220
Db 97042 AAAGAAATGAGATAAACAAAGAAATGAGATAAGGAAGAAATGAGATAAA 97101
Qy 2221 GATAAAGGAGAGCCAGAGAGAAGGCCACTTGACAGACAGTCTT 2280
Db 97102 GATAAAGGAGAGCCAGAGAGAAGCCACTTGACAGACAGTCTT 97161
Qy 2281 ATTCGAGTGAGGAGAACCCACTCTAGTAGGGAGTTAACCGAGGACTCT 2280
Db 97162 ATTCGAGTGAGGAGAACCCACTCTAGTAGGGAGTTAACCGAGGACTCT 97221
Qy 2341 CGTCATCACTCATATTAGCATGGCTCTTCAGCTGAGGGAGAGGGTCTACT 2400
Db 97222 CGTCATCACTCATATTAGCATGGCTCTTCAGCTGAGGGAGAGGGTCTACT 97281
Qy 2401 ATTGAGTCAGAAAGGCTAACATA 2430
Db 97282 ATTGAGTCAGAAAGGCTAACATA 97311

RESULT 5
US-09-949-016-38930/C
; Sequence 38930, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 6/0/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 6/0/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 6/0/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 38930
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-38930

Query Match 13.6%; Score 329.6; DB 3; Length 601;
Best Local Similarity 99.7%; Pred. No. 3.5e-71;
Matches 329; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2101 CAGAGAAAGAAATTCTGAGGGAGGAGGAAGAAATGAGATAAACCA 2160
Db 414 CAGAGAAAGAAATTCTGAGGGAGGAGGAAGAAATGAGATAAACCA 355
Qy 2161 AAAGAAATGAGATAAACAAAGAAATGAGATAAGGAAGAAATGAGATAAA 2220
Db 354 AAAGAAATGAGATAAACAAAGAAATGAGATAAGGAAGAAATGAGATAAA 295

RESULT 6

US-09-949-016-205286/c

; Sequence 205286, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: C1001307

; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/1241, 755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237, 768

; PRIOR APPLICATION NUMBER: 60/231, 498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows version 4.0

; SEQ ID NO 205286

; LENGTH: 601

; TYPE: DNA

; ORGANISM: Human

; US-09-949-016-205286

Query Match 13.6%; Score 329.6; DB 3; Length 601;

Bert Local Similarity 99.7%; Pred. No. 3.5e-71; Mismatches 329; Conservative 1; Indels 0; Gaps 0; Matches 329;

Matches 329; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2101 CGAGAAGAGAAATTCTGAGGAGGAGGAAGAAAGAAATGAGATAAACAA 2160

PRIOR APPLICATION NUMBER: 60/241, 755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237, 768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231, 498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 38931

LENGTH: 601

TYPE: DNA

ORGANISM: Human

; US-09-949-016-38931

Query Match 13.6%; Score 329.6; DB 3; Length 601;

Bert Local Similarity 99.7%; Pred. No. 3.5e-71; Mismatches 329; Conservative 1; Indels 0; Gaps 0; Matches 329;

Matches 329; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2101 CGAGAAGAGAAATTCTGAGGAGGAGGAAGAAAGAAATGAGATAAACAA 2160

464 CGAGAAGAGAAATTCTGAGGAGGAGGAAGAAAGAAATGAGATAAACAA 405

2161 AAGAAATGAGATAAACAAAGAAATGAGATAAACAA 2220

404 AAGAAATGAGATAAACAAAGAAATGAGATAAACAA 2220

Db 2101 CGAGAAGAGAAATTCTGAGGAGGAGGAAGAAAGAAATGAGATAAACAA 2160

Db 294 GATAAAGGAGAGCCAGACCTGAGAAGAGAAATGAGATAAACAA 2280

Db 2281 ATGCAACTACTATTCAGCTGGCCTCTGTGAGGGGGAGAGAGTCTACT 2340

Db 2341 CGTCAACTACTATTCAGCTGGCCTCTGTGAGGGGGAGAGAGTCTACT 2400

Db 224 CGTCAACTACTATTCAGCTGGCCTCTGTGAGGGGGAGAGAGTCTACT 165

QY 2401 ATGAAAGTCAGAAAGCTAGCAATA 2430

Db 164 ATGAAAGTCAGAAAGCTAGCAATA 135

RESULT 8

US-09-949-016-205287/c

; Sequence 205287, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: C1001307

; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/1241, 755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237, 768

; PRIOR APPLICATION NUMBER: 60/231, 498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 205287

PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 38897
 LENGTH: 601
 TYPE: DNA
 ORGANISM: Human
 US-09-949-016-38897
 Query Match 6.2%; Score 151.4; DB 3; Length 601;
 Best Local Similarity 99.3%; Pred. No. 2.4e-27;
 Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Pat. No. 6812339
 Db 81302 ATGCAGCCAGAGCAGATTGAGCAAGAATTTGATCTACATGTTGAGTACAGTTCTATGATTTCACATGA 81361 1405
 QY 1406 ACTCCATTCCTAACTTGTCGAAAGGGAGTTGCACTTGACTTGACTTGATGATCAGCATACATGGACT 1465
 Db 81362 GAATGTAAGCAAGAATGAGAACGGTTTAAATGGTGTGAGTACATGGTGTGAGTACATGGCA 81421
 QY 1466 CTCAAAGAATCCTAGATGAGTCGATTGCTTAAGACCTACCAACTACGGTCAGTAG 1525
 Db 81422 ACAAAAAACAGTTGAGAAGAGTCTTAAGTCTACAGTAACTAAGAGCAG 81481
 QY 1526 CCTCGCGATGATGAGTCAAGCTTACGATCATCGAGAAGTGGTGTG 1585
 Db 81482 AAATTCGCATCAACGTCATCTAGACATTAAGAGTGGACATTTTGCTGATTTG 81541
 QY 1586 ATACAGAGATCTTATGACATGTCGCTTAAGATGAAATCGTCCTATTTGCTGTTG 1645
 Db 81542 AGCTGCTCTGTTGGTGGAGTGTGAAATGACCCAGCTACAGTCTTGAG 81601
 QY 1646 ACTTGTCTGCAAAMAGGAGAAATGGCAAGAAATGATATCATCAAGCATGGAG 1705
 Db 81602 ATTATATTGCAAGAAAGGGATATCGGAGAGATGATATTCAAGGAAAC 81661
 QY 1706 TCCAAGTCTGAGGCCCTGATGGTACTAAAGTTCTGGT---TACTCTGAAGCTGGG 1761
 Db 81662 TCGCTGTGTCGAGTGTGACTCGTTGCGATGAGTGGCTACT 81721
 QY 1762 TCGGTGTGAGAATC-AGCCTCTAGGAGGAGAACCGTGCACGTGCC 1819
 Db 81722 TCGGTGTGAGATGAGCTCTAACATTAAGGGAGAACGTCGCACTCGAACGGCC 81781
 QY 1820 ATGTGCTGGCCACGGTTCCAACCTTTTAACTCTAGACAAAAGACCTCCAGAAA 1879
 Db 81782 ATATTAAGATTTGGCTACTCGAGCTGTTCTCAAAAGATGACCTCATGGA 81841
 QY 1880 TTCTAGTCGATATCGAGATCTGAAAGGATCTCTGAAAGAGAACGCCAGAGTGTAA 1939
 Db 81842 CTCTAACTGAGTACCCAGATGCCAAACTATGCTGAAAGAGAACGGAGATTAA 81901
 QY 1940 AGCAGAGGCT 1950
 Db 81902 TGAAGATGTT 81912
 RESULT 13
 US-09-949-016-38897/c
 Sequence 38897, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CLO01307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIORITY APPLICATION NUMBER: 60/241,755
 ; PRIORITY FILING DATE: 2000-10-20
 ; PRIORITY APPLICATION NUMBER: 60/237,768
 ; PRIORITY FILING DATE: 2000-10-03
 ; PRIORITY APPLICATION NUMBER: 60/231,498
 ; PRIORITY FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 205175
 ; LENGTH: 601
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-205175
 Query Match 6.2%; Score 151.4; DB 3; Length 601;
 Best Local Similarity 99.3%; Pred. No. 2.4e-27;
 Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 493 GCAAGCCACGGCTGACACCAATAAGAGGATGATAGCCACAGACATAC 552
 Db 291 GCAAGCCACGGCTGACACCAATAAGAGGATGATAGCCACAGACATAC 232
 QY 553 TACAGGCTGTGCTGAGTCAAGTCAGTCAGTACTTAAGGAAAT 612
 Db 231 TACAGGCTGTGCTGAGTCAAGTCAGTCAGTACTTAAGGAAAT 172
 QY 613 AACCTCCAAACAGCATGATTCATACAGAT 645
 Db 171 AACCTCCAAACAGCATGATTCATACAGAT 139

RESULT 15
US-09-949-016-38915/C
; Sequence 38915, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CI001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 38915
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-38915

Query Match 6.1%; Score 147.6; DB 3; Length 601;
Best Local Similarity 97.4%; Pred. No. 2.1e-26; Matches 150; Conservative 0; Mismatches 4; Indels 0; Caps 0;
Qy 1336 GGAGCAGCTTACGGCCAACTCAGAACTACTCTTCGGCCCTGCAATGAGACCATTGCTAC 1395
Db 601 GGAGCAGCTTACGGCCAACTCAGAACTACTCTTCGGCCCTGCAATGAGACCATTGCTAC 542
Qy 1396 ATGAAACATTACTCCATTCTTAACTTGTGCAAAGGGAGTGGATAATGGATGATAT 1455
Db 541 ATGAAACATTACTCCATTCTTAACTTGTGCAAAGGGAGTGGATAATGGATGATAT 482
Qy 1456 ACATGGGACTCTCAAAGAATGTTAGATGAGTCG 1489
Db 481 ACATGGGACTCTCAAAGAATGTTAGATGAGTCG 448

Search completed: May 19, 2006, 02:11:03
Job time : 825 secs

This Page Blank (uspto)